	No.	District a		Rainfall at Sudder Station in inches.	Character of the weather and state and prospects of the crops.
OR	1854	And Election			
	1 88	Cuttack	April 26, '90	Nil	Weather—consonable. Lands are being prepared for bealt paddy.
ORISSA DIVIS.	39	Pooree	***	400	Report not received.
ORI	40	Balasore	, 26, <b>'9</b> 0	0.06	Weather—warm. Cultivation much benefited by rain in the Bhuddruck sub- division and parts of the Sudder subdivision. Number of coolies on tank works has fallen to 92 owing to heavy rainfall.
CH		NAGPORE.	in Agency.	4	
	41	Hasaribagh	April 26, '90	Nil	Weather—seasonable; very hot. Sugare-ne doing well. Moles harvest nearly finished. Mango injured by high wind.
ha Divy.	43	Lobardugga	,, 96, *90	Nil	Weather seasonable. Lands are being ploughed for early rice. Mangous in abundance.
CROTA NASPORS DIVE.	43	Singbhoom	,, 26, '90	Ni	A little rain in eastern part of Dhalbhoom. Weather very hot; thermometer 108° and 109° in shade. Very cloudy this morning (20th). Sugarosae is being planted. Moass and mange generally doing well. Prices continue to be easy.
-	44	Manbhoom	,, 26, 90	0.46	Weather-windy; min threatening. Slight rain during the week has facilitated ploughing. No crop on the ground except sugarcane.

Published for general information.

CALCUTTA; REVENUE DEPL., The 29th April, 1890.

P. NOLAN, Secy. to the Gott. of Bengal.

## Results of the Meteorological Observations taken at the Alipore Observatory from 20th to 26th April 1890.

			20	barometer		Тамга	RATURE	4		Hygnon	EFRY.		Wind.		-00	
Month.	Date.	Maximum in sun.	Number of hours bright sunshine.	Moan pressure baro at 32" Fahr.	Mean.	Maximum.	Range, .	Minimum.	Mean wet bulb.	Vapour tension.	Dow point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	WEATHER
1890.		0		Inches.	0	0	0	0	0	Inches	0	x			Inches.	
April	20th	354-5	8-6	29-776	86-3	947	15.4	79-3	78-6	0-879	758	71	SW, SSW and variable.	185	Ni	Partially cloudy
*	21st	151-8	8-8	-689	84-1	93-4	17:1	76-8	78-2	-691	75-7	77	SSW, SSE and variable.	194	0.98	Partially cloudy
**	22nd	145-4	8.6	-631	85-4	91-6	18-6	78-0	80.7	-990	78-9	81	8SE, 8SW and 8	106	Not measur- able.	Partially cloudy
n	23rd	150-0	8.7	-598	88-1	97-5	17:1	80-4	81-8	1.004	79-4	76	88W and 8 ***	182	Nil	Chiefly clear.
53	24th	154-6	8.8	-651	90-0	105-6	25.4	80-2	80-6	0.923	76-8	60	SSW, S and variable	154	n	Clear,
77	254h	149-7	6-6	-577	88-6	98-4	19-0	79-4	81-8	1987	78-8	74	8 and variable	61	11	Chiefly cloudy, o
	28th	149-8	5-5	-701	85-0	94-0	16-8	77-2	77-6	*860	74-8	71	ESE and variable	58	0.08	Chiefly cloudy,

m				Inches. 29.646
The mean pressure of the seven days The average pressure of the corresponding period for	24 years, S	G.'s Offic		29.737
				Hours.
The total number of hours of bright sunshine	***	>40	***	55.1
The maximum possible number of hours of sunshine	***		***	89.5
The mean temperature of the seven days		- 9 Q1 <sub>0</sub> (	060	86·8 84·4
The average temperature of the corresponding period The extreme variation of temperature		IB, DU. B		32.6
Mile and the second second	·**	***	***	105.6
The maximum temperature				Miles.
The highest velocity of the wind in one hour		***	***	17 Ibs.
The highest pressure of wind on one square foot	***	Ар	proximate	aly 7
The mean relative humidity		***	***	74
The average relative humidity of the corresponding po	ariod for 2	years, S	G.'s	
Office		***	***	72
				Inohea.
The total fall of rain from 20th to 26th April 1890 .		***	***	0.99
The average fall of the corresponding period for 24 year	ars, SG.'s	Office	***	0.86
The total fall from 1st January to 26th April 1890 .		***	0.90	2.09
The average fall of the corresponding period for 24 year	ars, SG.'s	Office	***	4.46

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph

The mouth of the rain-gauge is one foot above the ground.

c overcast, t thunder, < lightning, p passing temporary showers, d drizzling rain, ▲ hail.

J. H. GILLILAND,

For Meteorological Reporter to the Goet. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 28th April 1890.

## Meteorological Report of the Province of Bengal

Pooreo Outtack Balasore South-W	MEN108+	Representative	Arn	PRESSUI		-	-40,00	HORIZON.										1
Pooreo  Outtack Balasore South-Widnepo	ATBION.					Will	D.		- 0			THEF	BRATI	TRN.	S. C. B.	17-3	1134	
Cuttack Balasore South-Williams			Mean barometric height, 8 A.E.	Mean reduced to sea-level.	Variation from mens.	Prevailing direc-	Mean wind vo- locity.	tighest during		Date	Lowest during week.	4		Rean maximum tomperature.	Mean minimum temperature of week.	Mean daily tem- perature of week.	Variation from normal mean of week,	Mean, \$ A.B.
Balasore South W. South 24- Midnapo	200 00	Pooree	29-740 29-745	20-761 29-767	- '063	AW.	487 889*7	8918	21st 19, 21	April	80°8 78°6	19,20,5	Mapl.	881 86'8	80°9 80°4	84'5 83'2	+01	63
Balasore South W. South 24- Midnapo		Paise Point	30775	20"716	- "088	BSW	473'0	90.2	23th		79'8	19th	99	10.7	84.2	6470	+0.4	85
South-We South 24- Midnepo	944	Cuttack	29.672	29'783	071	sw	361.0	106'9	25th	.61	7814	19th	14	185'0	79 9	93'4	+12	86
Bouth 24- Midnepo	-	Balssore	29.602	20'724	-,100	114	\$82.6	104'5	nath,	#8th April	73'8	21st	"	97.8	78'8	88.0	+1'6	841
100 CS	est Hidnapor Pergunnaha	Baugot Island	20 717	29'743		BSW	206	027	34th	25	79:0	19th	29	91.3	81.9	86.6	+1%	881
24-Pergu		Midnepore	29'574	29:784	-1000	8	198'2	113'4	25th	24	77-1	Slet	81	106'1	78-7	98 0	+2'3	65
Howrah Hooghly	nnahs	Calcutta	20'707	29:700	-1004	S8W	175	105'4	25th	**	73-1	##nd		95'4	77-6	80.2	+0'9	86
Burdwas		Burdwap	29-618	29:713	- 197	Bouth-	1223	108.7	254h		71'9	201h		1001	77.9	89.0	+07	801
Hankour		Bankoois	30"407	20.706	- 1079	westerly. Calm	290'0	111.0	25th		6716	10th	20	103'3	70'3	89'8	+0'4	841
Beerbhoo		? Rancegunge	29'396	29*730	1017	ESE	145'0	110-7	25th		70'9	19th		101.2	77'0	80'1	+0%	100
West Bus		2	29'660	20-728	*984		300*8	105'8		1.03	18.9	Sales I	4 12	96'0	74-9	85'8	1523	881
Moorahed	A 18	Berhampere Krishnaghur	29 679	29-727	-070	85E	178'6	106 8	254h	95	60'1	19, 20 19th	April	97*7	74 0	19.0	+0.5	28
Nudden		at at			100			179.0	1	14	NEW Y				1	17.6	19.730	100
Khoolus	100 20	3 Jensore	20-211	29:745	1071	6.8	108'1	96.8	221h	- 05	70-9	1967	**	98.5	76.0	84.8	-1.0	BL
Chittagor		Chittagong	59'736	201923	-1971	68	1427	81.8	20th	27	70'0	Slet	- 11	87.8	76'4	81.1	+0.1	700
Chittagos	g Hil Truck	Demegiti w				1 10	William .	1000	100	not re			4	-	- 13	200	- 112	13
Backergu	inge	Barrisa!	20'755	29-767	-1076	8	140'1	98.8	10.00	April	68-9	atud	10	90.0	74'8	82'4	-07	81:
Nonkholl	y	" Noakholly	20.784	59.808	-,008	8E	162'0	96.9	Elst		67.8	Slat		97'5	72'8	80'1	-3'6	60
Furrood	pore	- Furreed pore	29 732	29*772	090	SE	185.0	943	258h	. 10	69.9		k sard April	85:8	72'9	80-7	-29	791
Dacta		Dacca	20746	29-769	'061	#B	170-8	98'1	Zòth	- 14	09.3	19th	60	89.0	730	60.2	-3.8	78
Commille		Commillab	29'764	29-799	- °087 - °084	South- easterly.	20013	97'8	Shed	.00	94.4	osh	41	01.4	71.6	81.4	-0.2	79
Mymensi		Mymonsingh.	29-726	20*740	-:064	ENE	1144	91'2	234p	20	64.7	19th		86'4	69.6	77.4	-43	76
Bugra		Bogrs.	29'714	29:762	- 069	South-	151-9	22.0	zoth	**	67 9	19th,	April	861	71.6	78'8	-6.7	761
Pubna Rajshabi	William P.	- Sampore Beau	1	20*744	- 0.00	ensterry.	107:7	98.6	25th		69'1	19th	"	80 D	71.8	78'6	-67	70:
Maldah		lean. Maldah	29-176	20.768	+ '023	B	94.5	98'5	zath		66'6	19th		927	7.577	827	-4.8	277
Dinasep		Dinagepore	29 656	29-178	-,862	ENE	106'6	92'3	EDU.	& 286h	67.2	19th		88'5	71'0	60'1	-3.8	281
Rengpor		- Rongpore	29'606	29.793	-1041	B	01'3	91.6	20th	April	612	19th	"	86'9	71'3	79'0	-1'9	76
Julpigore		-1	3M*678	<b>20</b> -770	009		269'7	88'6	28th		62.8			0.417	120	135	-1163	76
Cooth Me		Jalpigoree		-	-	Miles-	1000	HE ME T	934			19th	As .	84'7	64.8	76'9	-1.8	75
EAST-15	Hill Tracts	Darjeeling	28.801	-	7	Wsw	188'0	66.4	25131	**	65'7	19th	**	60.1	20.2	88.1	-01	341
North Bh	agulpere	Purneah	29:634	29'762	- 048	ENEA	110.3	967	26th	**	67-6	19th	41	93 2	73'0	68 1	-12	781
Mounfler	POT	- Mozuflerpore	2	. 1	7	ESB	1	101.9	10th	M.	74'9	196h		967	76'5	8d*6	-	791
Durblium	gh	Durbhungs	20-578	29-747	- '067	B8R	178-0	97.6	åtth	**			1	9816	0.7		1	70
Chumpar	ma	- Motibari	29.216	29 745	- 037	ESE	215'4	90'2	Bith	**	60.9	19th,		90%	74'0	86'9	+116	ot:
SAPER	pp.	··· Chuprs	297926	20 717	000	18	178'1	105:3	25th		8017	asth	April	100.0	78'6	80.6	+0'7	68
Shahabad		Bux=r Azrah	20'385 20'475 20'511	29.784 29.715 29.706	- 046 - 046 - 046	ENE E	146'9 168'1 213'7	110°9 106 4 107°4	Soth Soth Soth	**	74°2 78°8 72°7	Sint syth syth	2.0 2.0	100°4 102°5 1,42°5	79°4 78°6 77°0	92'9 90'7 89'7	+4'6 +8'3 +8'1	901 851 831
Gya	PRE .	Gys	1	-	10000	100		100	1	MED-		DEC E	"		1553		Die P	1
Patna		Bankipore	20,234	20 716	-'071	E	103'9	100'0	201h		72'9	noth		100-9	75'6	88-9	40'3	62
South file		Z 1 SSUMPOLDONA	20 245	D:726	'060		83*7	103'7	Bith		70'0	19th	4.7	0440	rich.	84°7		
nominal P	newwana h		19.381	59-731	'073		the Second	-50	1	FUE		16.0	A.	94.8	76-6	1000	-1.0	14
Hameiba.	wh.	Boomto	17:736	29-714	- '0.8	Resterly	190'0	106'6	20th	**	70%	208h		96-1	75-5	89.8	-9'4	100
Lohardug	-	Hasariosgb			130	South- westerly,	297-3	104.0	2010	."	70'8	30th	**	101 0	78'6	86.8	+1'9	84
Manbhoo	000 in	Ranchee	37 036	29.700	- *600	aw	17:18	104'E	25th	21	2014	19th	*1	100'7	73.9	87'3	+17	87
Hingbhoo	a in	Chychasia	x8"940	39764	-100	Wsw	74'0	1118	25th	19	76'8	Stat	**	107-8	40.0	94'9	4.83	08

The hamidity of the atmosphere approach of air pressure and temperature are the arithmetical average or means of the reading during the same period for the la are the numerical means or average of the ras fail in that district determine being presented by 100. A clear sky is denoted by 0 and an overcast sky by 10. The numb stations as the district ending in returns sivided by the number of stations. A rainy day is one on which at least hundred to of an inch tell.

for the week ending Friday, the 25th of April 1890.

						SALES/6	DISTR	ICT OBS	BRVATIO	NS.	100	150		
10	Cast.	1	114	21.7	J. Se			BAIR	PALL.		Hill			The state of the state of
	d smou	week	OF	WRUK.	Sin	oe 1st of mo	nth.	Sinc	e 15th May	1889.	number days.	number 7 days.	Representative	Distance.
	Average cloud of 6 A.M. for	Sainfall of week observing station.	Mean for district:	Normal mean,	Mean for district.	Normal mean.	Variation,	Nean for district.	Normal mean.	Variation.	Average in of rainy d	Sormal to of rainy d	100	
90 63 70	1'8 1'0 8'1	Nu Nu Nu	0.01	0.32	0.00	9'98	-0.80	77'62	86'17	+19*48	0-2	0.0	Pooreo Gepalpore False Point	Pooree
70 (D	0.9	Nil	0.89	0.41	6'31	0.31	-0.80	68-61	56'78	+18'03	0.8	0.7	Cuttack	Outtack
78	0	NII	0.00	0.98	0'66	1'04	-0.88	53'99	60.08	-8.80	0.7	0.8	Balasore	Balance
93	67	296	0.01	0.70	0.01	1'25	-1'24	80.88	66'26	-0'26	0:3	0.0	Sauger Island {	South West Midnapor South 34-Pergunnaha
	Deline	9.08	10	111	0146	1.98	-078	47:90	85'42	-7'63	07	0.8	Midnapore	Midnapore
79	0.7	0.19	0.10	0.61			1 1000			1000	-	0.9	Calcutta	24-Pergunnahs
70	8'9	0.00	0.83	0'40	0.83	121	-0.52	99.63	65'98	0	1.0		Caloutta	Hooghly
	9.7	1.50	1'84	0.26	1'90	1'44	+0'46	46'30	\$0.00	-431	218	10	Burdwan	Burdwan
78 (8	81	1.01	0.00	0'45	0106	0.80	-0'25	87'48	24'99	+2:40	1'5	0:0	Bankoora	Benkoors
EDB.	4'4	Skyl	0.28	0.47	1'34	0.07	+0.14	54'29	04'88	+0.02	1'5	1.0	Rancegunge	
79		0.60	Lie.		1		+0'45	88.88	55'25	-0:38	1.3	0.0	Berhampore .	Moorehodahad
91	7.0	0.41	0.99	0.35	1:67	1.08	-0.38	53*84	84'08	-0'84	2.0	1:3	Krishunghur	Nuddea
(00)	81	1:93	1.00	0.80	1.88	8:10		0000	88'97	-131	84	16	-	Jessore
80	69	3,11	178	1.00	3.70	3'43	+6°97	57.06	100			MARIE		Anoona "
81	4.0	1.80	1'60	0.77	8:77	1°71	+2'06	100 67	118:27	-11.60	4.0	1.6	Chittagong	Chittagong
æ	7000	2	(-1)	0.79		8.26	100		87'83		9	16	Demagiri	
36	5.6	8:31	2.00	1.08	4.00	2.52	+1.77	8991	m·45	+0.46	8.0	17	Barrisal	Nonkholly
54	94	4'85	9.80	1.19	0.86	8'08	48.63	99'55	114'97	-15'42	4'6	2.0	Noakheliy	Presentation
	14	0.08	3.49	1.33	4,33	2:78	+1'60	67'99	62*41	+6.98	8.8	2.1	Furredpore	Dadge
86	84	1'88	2'44	1.61	9.80	3'45	+2'06	88'44	67'31	+16.13	8.0	27	Commillab	Timorah
78	87	0.24	2.00	1'06	A'20	3.74	+0.46	96.33	78:00	+23.05	2.8	21	Managarak	Mamorala
90	8.1	8:46	2.78	1.31	4196	3,20	+2'15	68*48	78'10	4 8 104	2.0	19	Bogza	Rogra
85	916	1.18	1.03	0.77	8.07	1:31	+0.00	60:49	59.09	+3'43	2.0	179	Serajgunge	Pubna
99	79	1.23	1.25	0.84	3'11	216	+2.27	57.63	86.23	+1'11	10	10	Rampore Reaules	Rajahahaa
	9.1	9:84	0.00	0.43	8:20	0'93	-0.64	40'08	86 08	-16.00	2.0	0.8	Maldah	Maldah
84	816	0.73	0.18	0.83	0.89	0'72	+0.05	28.93	19:31	-1.00	1.4	12	Dinagepors	Dinagapara
85	79	1.00	0.42	0.20	3 96	9185	+073	88'84	77'94	+10-90	3.0	1'8	Rungpore	Ransman
84	47	1.08	1'87	1:20	13.34	1 - 10 - 1	+3.88	124'33		+7:00	4'8	2'6	Intrinser	Julpigoree
- 95	8:0	8.99	2.90	7.83	0.23	8.12			116-63			1 14		
90	77	3.03	1.24	2'04	4.87	8-78	+0.98	187'90	197.96	+0.04	9.0	8.2	Darjeeling .	Darjoeling Hill Tract
70	8.8	0.00	0.20	0.48	0.00	0.98	-0.10	75'64	6):81	+15'13	14	1.3	Purnesh	
	11	Nii	0.33	0.11	0'33	0'48	-0.10	49'18	91'53	+4/33	0.3	0.9	Mosufferpore	Mosufferpore
79	276	0:10	0.13	0.17	0.10	0148	-0.32	22.30	45'84	+6.25	1.0	0.2	Durbhanga	Durbhanga
79	21	MU	Mil	0.15	Mil	0.48	-0'48	64'11	48103	+10.00	9.0	0'4	Motihari	The state of the s
61	0.7	Nil	0.08	6'05	200	0:14	-0'12	40'32	43:79	-5'47	0.3	0.3	Chupra	Sarua
84 85 80	1'0 1'7 3'1	NII NII NII	Nil	6.03	NII	0*15	-0.19	40'40	91.00	<b>—0°57</b>	0.0	0.3	Huxer of	Shahabad
-		24.88	Nil	0°11	Nil	0.35	-0.25	37'34	42'67	-5'33	0.0	0.3	Gyn	Gya
66	19	NO	Nil	900	0.03	0'17	-0.12	45'04	40'21	+1'45	0.0	0.0	Bankspore	Patna
BG	7'4	0.01	0.21	0.14	0.21	0°40	+0'11	43'04	44.41	-1:37	0.8	0.3	Bhaguipore	South Shaguipers Monghyr
	Market.	97	0,99	11/21	1000		+0'20	85'54	60:37	+2'97	1'8	0.8	Doomka	Sonthal Pergunnaha
10	8.3	1.18	1000	0.81	0°78	9.55	-0.38	45'64	89.07	-8.43	0.0	0.8	Hasaribagh	Hazaribagh
48	0	Kil	Nil	0.00	Nil	0.36	-0.31	40.03	50-97	-4.54	0.0	0.8	Ranchi	Lohardugge
86	0	3611	NII 0'25	0.04	Nil o'ns	0.93	-0'36	39.03	49734	-9.72	1'0	0.0	Ranchi	
44	0.8	Nil	Nil	0'17	IIM	0.87	-0.81	49'84	64'90	-4.36	0.0	0.7	Chyebassa	Singbboom

ten years. The variations are negative when the mean for the week is less than the corresponding normal mean, and possive when granted the nermal means denoting cloud amount represents the part of the sky covered, the whole sky being denoted by it. Under the head District one represents the part of the sky covered, the whole sky being denoted by it. Under the head District one total rainfall at the subdivisional district are the numerical average of the rainfall return received in the district, the part of the sky covered that the subdivisional district are the numerical average of the rainfall return received in the district, the numerical average of the rainfall return received in the district are

# Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of April 1890.

			ET.	17		AIMPAE	la .	4/10	ATE !	To	TAL			12 45	
i steerologica. division.	District.	Station.	Saturday, 19th April.	Sunday, 20th April.	Monday, 21st April.	Tuesday, 25nd April.	Wednesday.	Thursday, 16th April.	Friday, 28th April.	Number of rainy days.	Rainfall of week.	Total rain- fall since 1st of month.	Average total rain- tail from 1st of month.	Total rain- fall since 18th May 1889.	Average rainfall from 188 May to date.
erwa	Pooree	Poores Khurdah Banpur Pulse Point Gap	200 kilo 200	223864 24265 24274 24274 24274 24274 12465	500-09 500-09 500-00 500-00 500-00	0°05	000000 000000 000000 000000 000000	000 cm	000 01V 600000 000000 600000 000000	NII NII NII NII NII	NII NII 0'08 NII NII	Nil O'00 O'05 Nil Nil Nil	0.28 0.00 0.21 2.04 7	88°03 61°00 70°08 77°58	83°23 86°46 51°23 67°70
	Onttack	Jagatsingpere Banki Cuttack Kendrapara Jajpore Dharmesta	000 000 000 000 000 000 000 000 000 000	**************************************	9°21 0°00	0°10	200000 200000 200000 200000 200000	000000 000000 000000 000000 000000 00000	400000 	NO NO NO NO 2 2 PG	NII NII NII 0'31 0'95 NII	NII 6:09 Nii Nii 0:83 6:95 Nii	0.00 0.20 1.19 1.00 1.23 7	76'19 86'27 77'88 72'08 89'16 61'65 78'78	40°10 81'71 69°40 48'88 67'88
	Balasore	Chandball	0.48	0.72 0'85	0108	\$20,000 \$20,000 \$20,000 \$20,000 \$20,000	900000 000000 000000 00000 00000	000 100 000 100 000 100 000 000 100 000	600000 600000 600000 100000 600000	Nit 1 1 1 Nil 1	Nfl 0.55 0.65 0.66 Nil 0.46	Nil 0'80 0'83 0'88 Nil 0'77	0°90 1°67 1°47 9°16 0°84 0°99	85°71 61'71 48'41 50'68 44'48 66'07	84°50 66°67 85°00 63°30 58°70 86°70
BEHGAL.	Midsapore	Contai Saugor Island Tumlook Midnspore Ghattal Kubrahaty Garbetta	0°08	0'10	070	000000 000000 000000 000000 000000 00000	100000 100000 100000 100000 100000	000000 000000 000000 000000 000000	00000 00000 00000 00000 00000	Nil 1 Nil 1 1 Nil Nil Nil	Will 0'02 Nil 0'10 0'76 Nil 0'43	0°09 NU 0°07 0°07 0°76 Nil	1'07 1'06 1'06 1'09 1'82 P	57'53 87'69 80'59 67'83 43'35 60'77 51'46	64 72 70 86 85 34 82 36 86 39
	\$4-Pergunnahe	Diamond Barbour Canning Town Alipore Jail Barrack poro Dum-Dum Baraset	0"18	AGF CCR 204275 202275 202775 242775 242775	245	0710 0798 0784 0784 0784 0780 1701	000000 000000 000000 000000	000000 001000 002400 000000 000000	200 mys. 200 mys. 200 mys. 200 mys. 200 mys. 200 mys.	Wil 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Nil 6°10 0°92 9°97 9°84 0°80 8°83	NII 0°10 0°93 0°97 0°96 0°80 8°83	1'/8 1'14 1'52 1'15 1'30	64*69 88*32 54*30 53*55 66*64 80*69	\$0.00 81.00 85.61 85.07
	flowtab	Howrah Mohesreka	100111	100100 100100	0.03	0'45	0.35	030405 20150	800.cc	1	0.80 0.80	0.90	1'40 0'07	60°84 60'40	88 W
	Hooghly	(Octoberiak.) Serampore Hooghly	0.05	011	900400 +v00004	0'66	040217 980705	*******	604 Gyd 204004 404001	1	0°88 0°85 0°11	0'8A 0'38 0'18	1'18 1'81 1'46	86'77 38'46 44 10	33.8 53.0 53.0
	Burdwao	Culna Eurdwan Cutwa Ransegungo Monkur	1°30 0°40 0°35 0°60 0 85	0.08	1.07	\$60.00 \$80.00 \$1	000000 000000 000000 000000	020000 020000 040000 00000 00000	244 040 244 040 244 040 244 040	3 1 1 1 1 1	3745 1783 0750 0750 1783	2'46 1'25 1'99 0'61 1'38	1.63 1.90 1.18 1.14 1.	64°38 49°28 45°61 87°57 86°35	60°6 61°7 51°6 61°9
	Sankoora	Bankoora Biahenpore Biahenpore Bialiara Khatra Indae Kotalpore Anda Gangajalghats Rotpore	0-17 0-19 0-55 0-26 0-26 0-16	0°25 0°61 0°08 1°26 6°72	000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000	000100 00000 00000 00000 00000 00000 00000 0000	naphra appra paper Teres paser assage assage assage assage	084409 080000 080000 080000 080000 080000	000000	2 3 N1 1 2 1 3 N1 1	1'08 1'00 0'65 Nil 1'26 0'98 0'40 0'48 Nil 1'11	1 '08 1 '00 6 '65 Nil 1 '96 6 '50 0 '48 Nil 1 '11	1.18 1.23 0.56 0.56 1	85'01 59'48 9 66'81 47'15 81'99 41'34 60'83 80'90 84'79	84°7 86°3 80°8 86°8 7
	Sperbhoom	Sondenakki  Bh. Soory  Hetampore  Rampore Hent  Balpore  Murarai	0°85 0°21 0°30 1°81 0°38	0°35	000000 000000 000000 000000 000000	200000 200000 200000 200000 200000	\$600.00 \$600.00 \$600.00 \$600.00 \$600.00 \$600.00	000000 000000 000000 000000	000000 000000 000000 000000	9 1 1 1 1 1 1	1.81 0.30 1.81 0.30	1'20 2'45 6'30 2'04 3'73	6°84 0°83 1'04	60'85 50'31 46'46 57'53 86'30	86°3 86°3 86°3
	Nutdes	Ranaghat Kishunghur Choosdanga Maherpore Kooshtea	0°82 0°54 0°00	0°01 0°74 0°35 1°40 1°38	0°04	0°10	deress deress escapia portuga menang	000,000 000,513 000,000 000,510 000,510	000 000 000000 000000 000000	8 2 2 1 1	0.87 1.28 0.44 1.40 1.47	1'40 1'40 1'85 1'74 2'67	2:17 2:03 2:13 1:00 2:31	58'08 44'55 51'96 55'18 59'30	81 '74 80 '86 86 '11 82 '61 89 '61
	Klipolna	Satkhira Bagirhat Khoolna Nakipore Rampai	0°01	0°19	0'30	2°50 0°64 0°60 0°68	9:90 0:18 1:01	400000 400000 400000 400000 400000	opened potent presed opened	1	5'78 0'79 1'28 1'10 0'68	8-74 6-96 1-89 1-10 1-41	1'98 2'82 8'28	88-28 56-44 80-01 P	67°11 60°4
	Jessees	Narali Jemore Jhenidah Magoorah Bongong	0°41 0°65 0°97	6°03	0-12	0°30 0°49 0°30	0.88 0.88 0.83	**************************************	Pis	8 2 2	9'01 8'11 1'70 1'00 1'00	5°01 3'36 2'e6 4'03 1'09	2°19 2°08 3°66 3'14 1°51	85'48' 67'68 65'80 61'11 40'63	81'9 80'4 85'3 86'4
		Kardi Berhampore Isibagh Azimgunge Jungipore Laigoia Jiogunga Abariguaj	0°27 0°22 0°35	0°06 0°41 1°08 0°35 0°35	0.48	000000 000000 000000 000000 000000 00000	present	peo iy ngant ngant ngan ngan ngan ngan ngan ng	600 to 0 000 to 0 000 to 0 000 to 0 000 to 0 000 to 0 000 to 0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0'38 0'41 0'80 0'80 0'80 0'80 0'80 0'80	0°38 0°41 0°28 1°19 2°09 4°00 0°90 1°40 2°88	1'98 1'10 0'98 1'05 0'84 0'85	86°98 46°89 47'40 	84°1 64°8 65°8 61°3 65°8 7
	Chittagong	Cor's Basar Chittagong Katubdia Bathanya	491-001 1440-60 6-0-002 6841-70	operation adverse expense	0°10 0°27 1°06 0°65	0'40 0'44 0'96 0'31	1°03 0°81 0°07	0.01	000000 000000	4 0 0	1'84 1'67 1'03	4-35 (8-29 (9-46 4-97	1'35 8'03 7 7	190°07 80°33 68°31 73°47	189°1
	Hill Tructe.	Ruma	0 07 0 17	0.94	0.11	1'08	170		200711		278	8'17	3,91	91'08	991
	ABAN DES	Perosepore - Burrieal	0 17 ******* ******	200 200 200 200 200 200 200 200	6°21 1°36	0'27 1'54 1'51	0°45 1'40 8'87	071	204.004 204.000 204.000	5 9 4 8	0°72 8°29 8'65	8°18 4°15 6°51	1'8# 2'40 2'70	74'88 78'15 87'47	74*1 73:1 86 (

# Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of April 1890 -coatd.

		P. Land		May 3	R	AINPALI	4.	GF FIFE	Exis	To	TAL.		A		Average
Meteorological Division,	District.	Station.	Saturday, 19th April.	Sunday, 19th April.	Monday, 21st April,	Totalay, 22nd April.	Wednesday,	Thursday, 24th April.	Friday, 28th April.	Number of gaing days.	Eainfall of	Total rain- fall since lat of month.	Average total rain- fall from 1st of month.	Total rain- fall since 18th May 1889.	rainfall from 18th May to date.
AST BREGAL		Gournoddi Bouphal	*****	\$40000 194000	0.42	0°56 0°86	8*88 0*57	000111	000 000 000 000	3 2	4'63 1'43	5°25 1°65		96'81	
	Weakholly ,	Nonkholly Fenny Hariskpere Romeani	0.82	9702	9'88 3'00 0'03 2'28	1°60 0°45	0'21 0'23	0'64	950 101 976 100 970 103	8 5 2	4'94 4'97 8'60	5°48 6'34	2'84 3'18 ?	91°85	115'1 115'0 3
	Farreedpore	Madaripore Furreedpore Goalundo	0°05 0°18	0'64	0°85 0°17	1'65 0'89 4'11	2 28	100 T 200 T	******* *******	8 8 8	4.80 0.00 4.81	6'19 1'48 6'49	\$190 9141 2164	68°67 60°7% 65°63	63°s 63°s 68°s
	Dacon	Munahigungo Daces Naraingungo Maniekgungo Joydebporo	200,000 200,000 200,000 200,000 200,000	0°10 0°62 0°32 0°79 1°86	000000 000000 000000 000000	1'40 1'46 1'46 1'46 1'46	0°09 0°08 0°19 2°10 0°46	101000 101000 101000 101000	000AFF 000000 000000 000000	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1°89 2°16 1°67 4°34 8°16	6.99 8.00 9.97 8.97 8.97	3165 3163 3160 2183	86°50 85°50 87°55 70°67 78°70	76'4 66'3 67'3 85'9
	Hill Tipperah Tipperah	Agartola Comilla Chandpore Brahinumboria Romchandro-	0'14	8:78 0:90	0°09 0°40	0°87 0°22 1°64	0°20 0°10 0°67 0°35	0.02 0.31 0.02	004 THE 0004 THE 14 DAG	3 5 8 4 4	3-26 0-61 3-14 1-93 1-23	0°37 2°31 4°04 4°16 2°93	8:53 3:30 3:30 8:85	54*49 65*67 71*11 50*46 64*30	70 s 86 s 82 s 72 s
		Nasirnayar Daudkandi Kasha Laksham	3*40	1°40 0°85	1.10	1°20 0°48 0°99	2 40	1'20	500 200 200 200	Ntl 2 2 3	10-701 Nil 0:68 1:02	18'50? 1'15 1'43 4'48		52°50 54°53 64°53 76°75	
	Mymousingh	Kinhorestinge Atia (Tangail) Mymensingh Jamalpore Natrakana Subornakhally Durgapore ShoreporeTotes Dewangang	0'41 0'35 1'30 0'30	8°81 0°45 1°56 1°11 0°66 2°40 0°50 1°81 1°30	0.00	0°48 0°65 1'48	0 94 1 09 5 09 6 04 0 98	0.00	1'40 0'84	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	9'63 1'54 3'06 4'20 2'50 4'18 3'64 5'95 3'30	3°12 8°50 8°50 8°42 7°71 4°04 9°28 8°04	8'87 1'06 2'92 2'31 8'23 1	76°93 60°35 105°40 94°48 134°28 65°31 136°18 98°14 63°30	77'2 80'3 80'3 69'3 78'3
Nonym Breggy.	Pubna	Pubus	******	1'04 0'63	RANCON	0.91 0.71	0.04	999 491	900211 300117	3	1°96 1'38	1°84 4°36	2°89 1'93	68.11 83.39	8816 8710
	Bogra	Sherepore Nowkhills Bogra Panebbibi	0°03 0°70	0°90 0°90 1°08	404 494 440 494 940 494 444 493	000 007	0°03 0°15	200500 200500 200500	2+0100 207000 107000	2 2 2	1.00 1.09 1.09	1.03 2.29 2.44 1.03	1°01 1°32 1°65 1°25	64'38 66'37 74'76 68'31	87 2 63 7 68 2
	Bajohahya	Honnicah Nattoro Naopaen Laipore Manda	1.75	0.80	0.88	244404 240224 220024 440024 244004	150464 100454 150468 160408	000000 000000 000000 000000	1.30	1 1 1 2 2 3	0°81 0°50 0°90 3°05 0°31	8°25 8°53 9°83 8°99 9°31	6.39 1.22 0.39	40°89 64°50 58°60 40°74 45°88	85°4 88°1 88°1
	Maldab	Maldah Chanchal Gajol Bibgonj	0°07 0°30 0°40	0°05 0°03	707 to 1 197 to 1 66 to 1	49 422 422.02 52465	0 	200000 200000 200000	******* ****** ******	2 1	0°12 0°23 0°40 0°60	0°19 0°28 0°40 0°76	0°77 0°68 1	50°22 29°19 40°19 52°86	58°
	Uiuegepore	Mohadebpore Churamon Raigunge Dinacepore Raicorgasa Thakoorgasa	0°06 0°30 0°15 0°51 0°30	0°25 0°17	000000 000000 000000 000000 000000	900000 900000 000000 000000 000000	000 000 274 000 200 000 200 000 900 000 200 000	#000,000 #000,000 #000,000 #000,000 #000,000	6*29	NII 2 2 1	0°35 Nil 0°68 0°40 0°81 0°20	0°55 0°12 0°55 1°74 1°02 0°57	0°83 0°41 0°83 1°21 0°63	84'36 81'94 82'99 70'07 62'32 88'38	88 4 83 5 80 7 66 1
	Bungpore o.	Bhawanigungo (Gyabawda).	1'40	0.30	******	*****	0.30	0.02	Miner	4	195	376	9:11 1:99	93*14	657
		Rungpore Kurigram Hagdogra (Nilphameri, Ulipare	0°97 1°08	0°36 1°64	000000 000000	0°08	75° 404	999999 999999 999999	0.13	3	1'85 1'86 1'38	473 1'81 5'88	2 78 2 08	76°86 98°84 90°30	78°; 78°; 88°;
	Julpigoree	Julpigoree Alipore Docar Fallacotta Debiganj	0.80 1.90 1.27 0.80	0°06 0°80 0°87 0°08	0°04 0°00 0°08	0.51	1'20 3'48	0°05 0°48	Described Bases Bases	4 5 5 3	2°41 3°25 4'50 1°45 0°97	3°45 8°54 6°53 1°92 2°29	3:28	126'90 127'92 134'76 92'96 141'51	192 5
	Cooch Rebar.  Darjeeling Hill.	Bhagatpore (Nagrabatta). Dinhassa Cooch Babar Mickilgunge Matabhanga Bata Billiguri Darjeeting Kalimporg Kurscong	1'89 0'79 0'35 1'30 0'07 1'00 0'25 0'10	0°14 0°70 0°43 0°26 0°27	0'41 0'28 4'03	0.06 0.18 1.96 0.08 0.18 1.61 0.21	6°79 0°33 0°38 0°38 0°23 0°75 0°36 0°36	0 37 0 07 0 01 0 13 0 02 0 12 0 04	0°07 0°33 0°38	4. 5. 6. 6. 6. 4. 9. 7.	2°84 3°04 1°63 4°57 0°92 2°34 2°08 6°87 0°78	6'13 10'20 3'25 9'72 7'99 3'61 4'26 9'71 1'39	8'77 8'05 8'89 8 82 6'70 2'40 3'66 8'36	104'90 136'93 128'03 127'88 190'47 124'33 128'00 95'06 171'03	101:3 124:4 1:0:1 1:7:1 202:4 107:8 115:6
obth Behad	Purnosh North Bhagulpore.	Kissenguage Arrareab Purneab Gondware Balarempore Matieri Kaliagenj Maddapore Scopool	0°30 0°36 0°08 0°10 0°33 0°70 0°38	0'25	0010+P 00000 00000 00000 00000 00000 00000	0.333	\$20000 Outled Outled Outled Outled Outled Outled Outled Outled	102000 007753 00400 00400 00400 10770 00000 00000	000 16 00000 00000 10000 10000 00000 10000 10000 10000 10000	Nil Nil Nil B 1	0:39 0:36 0:30 0:02 0:10 Nil 0:55 0:76 0:07	0.78 0.45 0.30 0.08 0.10 Nil 1.26 0.76 0.76	1 02 1 20 0 35 ? ? ? ? ? ?	104'40 80'30 65'82 61'71 68'03	72.5 36.0 63.4 9 9 81.17 49.85
	Durbhungs	Protabganj Tajpore Durbhunga Madhubani Bahera	0.23	0.10	\$24440 \$15444 \$1544 \$1544 \$1544 \$1544	**************************************	241344 241344 241344 34144	posent person person	X	Nil 1 2 Nil	0°88 Nii 0°10 0°27 Nii	Nil 0'10 0'40 Nil Nil	0.80 0.07	89°17 42°65 50°47 68°10 70°09	64°0. 47°0 46°3
	Mounferpore	Bitamarhi Mosufferpore Hajipore Pars Mahus Sinkar Pupri	0000xx 0000xx 000000 000000 xxx0000 000000	0°65	400400 400404 60044 6004 40050 4	WESTER STREET	000000 24,517 24,639 26,639 26,639 381 90 365,535	000000 000000 000000 000000 000000 100000	00000 00000 00000 00000	NII NII NII NII NII NII	NII O'68 NII NII NII NII NII NII NII	0°67 Nil Nil Nil Nil Nil Nil	7 0.81 0.82 0.82 0.83	80°16 48°58 42°60 87°80 41°02 9	64% 60.7 427

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 25th of April 1890 -concid.

STILL THE ST	1000	6063	77-9		2	AINFAE	L	76.67	917	Tor	A.E.	ST. 110	15/16/19	37.8	
Meteorological Division.	District.	Station.	Saturday, 19th April.	Sanday, 20th April.	Monday, 11st April.	Thoughy, 25od April.	Wednesday,	Thursday, 94th April.	Priday, 19th April.	Number of rainy days.	Rainfall of week.	Total rain- fall since let of month.	Average total rain- tall from let of month.	Total rain- fall since loth May 1689.	Average rainfall from 136 May to date.
NORTH BREAK -concluded.	Champarus	Motihari Bettish Bapaka	000000 000000 000000	900 mm + 100	000.00A 200.000 200.001 200.000	000,000 000,000 000,000	000 × 45 244 ± 24 245 × 45	000.000 000.000 000.000	000000 000000 000000	Nil Nil Nil Nil	NO NO NO NO NO	NII NII NII	0°56 0°3R	76-88 52-69 70-44 81-93	4611 49131 1
SOUTH BREAK	Serun	Gopalgunge Sewan Chuprak Buxar Dahree	200000 200000 200000 200000	200006 200006	000000 000000 000000 000000	A00000 A00000 A00000 A00000 A00000 A00000	000000 000000 00000 00000 00000	224.000 242240 242240 242440 242400	0.02	NII NII NII NII NII	NII NII 0'06 NII NII NII	MII 0006 NH WII NII NII	0°09 0°18 0°17 0°16 0°11	85*73 44*43 60*90 47*74 65*08 88*61	44°9 41°3 30°4 41°0 43°1
		Sameram Arrah Mehaniah	200 101 200 101 200 101 200 100	000 004 000 004 000 004 000 004	200 191 200 191 21114 200 111	100 101 100 101 100 101	111100 101 00 111100	00000 00000 000000 000000	103.000 103.000	Nil Nil Nil	NII	NII NII NII	0.16 0.16 0.18	80°51 42°63	41.2
	Зув	Anrungabad Gya Nowadah. Jehamabad Arucai Daudnagar äharrahati Rajauli Pahri Baraman	000000 000000 00000 00000 00000 00000 0000	200000 200000 200000 200000 200000 200000 200000	000 000 000 000 000 000 000 000 000 000 000 000 000 000	200 m. h 219+14 220+14 220+14 200+14 200+14 200+14 200+14	######################################	990-00 000-00 000-00 000-00 000-00 000-00 000-00 000-00	000000 000000 000000 000000 000000 00000	Na Na Na Na Na Na Na Na	NA NA NA NA NA NA NA NA NA NA	NII NII NII NII NII NII NII NII	0°30 0°37 0°16 ?	40°90 80'73 85'77 84'49 96'69 29'29 17'94 81'90	45 % 41 % 41 %
	Patna	Patna Dinapore Bohar Barrh Stokram	######################################	0°00	000 101 200 102 - 000 000 101 100 101	207000 207000 207000 207000 207000	000000 000000 000000 000000 000000	000000 000000 000000 500000	000 000 000000 000000 000000	NO N	Nil Nil 0'10 Nil 0'00 Nil	Na Nil O'lo Nil O'es Nil	0°18 0°21 0°20 0°06	51°89 40°53 41°38 80°03 44°98 35°64	42°9 46°2 45°0 60°3
	Monghyr	Begooserai Monchyr Jamui Gopri Sheikpura	000000 070700 000000 000000	0'48	000000 000000 000000 00000	004 005 belief 007000 003400	0.00900 0.009000 0.009000	COPPER CO	000000	1 Nii Nii Nii	0.43 0.01 Nil Nil Nil	0.43 6.01 Nil Nil Nil	0°23 0°21 0°37 1	48°18 41'78 39'88 80'19 43'38	61° 67° 44°
	South Bhagul- pore.	Banka Banka Kolgong Bangaon	0°04 1°05	0.48	051050 021-02 120-14	0,0000 01000 00000 00000	662046 566050 201020	200200 200200 201000	000000 000000 000000	Nii Nii	0°84 2°18 Nil 0°35	2°45 Nil 0°38	0.41	45°12 40°93 46°97	45
	Southal Pergunabs,	Rajmehal Godda Pakour Nya Doomka Dooghur Jamusra Mohagama Nominat	0.96	0°75 0°63 0°57 0°46 0°40 0°18	DEFONE NOTES	000000 000000 000000 000000	202275 20277 20277 20277 20277 20277 20277 20277 20277	000 000 000 000 000 000 000 000 000 000 000 000	000 000 000 000 000 000 000 000 000 000 000 000 000 000	1 1 8 1 8 1 8 Nil	0°75 0°03 0°57 0°12 0°60 0°45 Nil 0°61	0°78 0°08 1°19 1°82 0°40 0°78 0°24 0°78	0°76 6°48 0°36 9°71 0°65 6°45 2	49°77 76°03 59°42 41°23	85 46 90 95 85 86
HUTIA NAG-	Hasaribagh	Pachamba (Giridi) Hazaribagh Bomtagurah	960 064 1961 094	A00000	******	nerses	\$40000 94000 960000	50000A	000003 000000 000000	Nil Nil Nil	NII NII	NU NO NO	0°48 6°88 9°95	40-81	40
		Mahudi Hills Jhoomra Hills Barhi Chairs Karegdeha Bamghar	orenzo orenzo onoren onoren onoren onoren	40000 40000 69000 69000 69000 69000 69000	900000 900000 900000 800000 900000 900000	201100 201100 20110 20110 00100	worder was spi was sad was sad was sad was sad was sad	020000 050000 050000 050000 050000 050000	202020 202020 202020 202020 202020	NO NO NO NO NO	NII NII NII NII NII	NA NA NA NA NA NA	0°10 Nil ? ? ?	4.8°40 28°08 47°09 40°08	64
	Lohardoggs	Lohardugen Ranshi Palamow Silli Balumat Kosseinabad	200000 000000 000000 200000 550000	000000 000000 000000 000000	020000 000000 000000 000000	000 000 000 000 000 000 000 000 000 000	000030 902003 000 000 000 000	000000 000000 000000	000 000 000 000 000 000 000 000 000 000 000 000	NII NII NII NII NII	Nu Nu Nu Nu Nu Nu	Nil Nil Nil Nil Nil	0°94 0°40 0°24	60°23 20°13 26°30 44°79	64
	Singhboom	Chychaten Chakradhar-	0.07 003 3.07 000 4.02 007 (000 007	pports	and see	pardim andim	Sadora readed	200 000 200 000	222000 222000 222000	Nil 261	Na Na Na	Nil	0.87	- matte	84
	Manbhorm	pors. Ghatsilis Baharagura Purulia Gobindpore	0'03	0:46	Green encous podent sentas	000 and 000 and 000 and 000 and	600005 000000 000000 000000	425400 -10000 -2 100000 -2 1000000 -2	200200 044200 004400	NII NII	0.48 0.48 0.11	1'38 Nil 0'46 0'08	0°61	34'06	81
	AT P	Rayhungib- pors. Harrabhoom Jhaida Chas	000000 000000	0'28	600000 600000 600000 600000	\$60,000 \$60,000 \$60,000	pened pened pened pened pened	,000400 ,000404 ,000404 ,000404	000117	MU MU NU	NII NII 0780	Nii Nii 2011 0:86		46°35 45°85 51°8 50°4	8

Replanation, -indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If any of the return for any maxime, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 29th April 1890.

## SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 25TH OF APRIL 1890.

The unsettled weather, which was noticed in the report of last week, has continued with very little interruption during the present week. Large and frequent changes have occurred in pressure and temperature, the wind circulation has been almost always cyclonic round a centre well to the west of the province, and thunderstorms with rain, though not

very general, have been of daily occurrence.

On Saturday the 19th, the first day of the present week, there was a low-pressure area overlying part of the North-West Provinces and part of Chutia Nagpur. During the previous day a rapid rise of pressure occurred, but the depression remained, and influenced the wind directions in all parts of Bengal, giving south or south-east winds in Lower Bengal and east or north-east winds in North Bengal and Behar. Pressure differed very little from the normal, generally less than a twentieth of an inch above, and very slightly below the normal in Chutia Nagpur. Temperature was largely below the normal in East and North Bengal, and slightly above in Orissa and Behar. On the 19th, rain was general in South-West and North Bengal, and scattered showers fell in the other districts. On the following day pressure continued to rise slowly except in Behar, where the rise was brisk. The low-pressure area was more diffused, wind circulation less regular, but still cyclonic, the centre somewhere in South Behar. Temperature changes on the 20th were not important, and rainfall more scattered. On the 21st a rapid fall of pressure was general, and continued with greater or less rapidity till the end of the week. The depression in the North-West Provinces again intensified, and caused easterly winds over almost the whole of Bengal The change of pressure in Chutia Nagpur and South Behar was very little under a tenth of an inch, and it gradually diminished towards the north-east, defect being about a twentieth of an inch everywhere except in North Behar and North Bengal. Temperature continued to be largely below the normal over the eastern half of the province, and rain was again less general, numerous showers falling only in the Cooch Behar and Julpigoree districts, and in the Sunderbuns and Chittagong. On the 22nd the fall of pressure continued, briskly in Behar and slowly elsewhere, and defect had now increased to a tenth of an inch in Ohutia Nagpur, South-West Bengal, and Orissa. The depression was gradually extending in a south-easterly direction, but as it had the form of a trough extending from the head of the Bay over Chutia Nagpur and the North-Western Provinces, the southerly motion had very little influence on the wind circulation, which remained unchanged till almost the end of the week. Temperature remained low in East and North Bengal till the 23rd, and during the 22nd and 23rd heavy general rain fell in these two districts; but during the last two days of the week, temperature rose very rapidly over the whole of Bengal, and the large defect which had been present for the greater part of the week in East and North Bengal disappeared. On these two days there was a large defect in pressure, everywhere more than a tenth of an inch and in some places very little under two-tenths. On Friday westerly winds were general over South Behar and Chutia Nagpur, and then the lowest pressure was over the head of the Bay near False Point and Saugor Island. Very little rain fell on Thursday and Friday, only a few scattered showers in East and North Bengal.

Pressure—As stated above, has changed rather largely, and was about two-tenths of an inch below the normal at the end of the week. The means for the week are all considerably below the normal, the largest defect being a tenth of an inch at Balasore, and the lowest

about a twentieth of an inch over the greater part of North Behar.

Temperature—Was about normal in the western half of the province and four or five degrees below the normal in East and North Bengal till the last two days of the week, when a rapid rise following the almost general stoppage of rain, a large, though somewhat irregular, excess prevailed. The means for the week are above the normal except in East and North Bengal. Excess in Chutia Nagpur, South Behar, and Orissa is over 1°, defect in North Bengal 3.4°, and in East Bengal 1.9°.

The actual temperatures during the week, the range from day to night, and their variations from the normals are seen in the following table; where the average maximum, minimum and mean temperatures at nine typical stations in different districts in the province

are given together with their normal values:

Table showing the excess or defect of the actual mean temperature from the normal for the week ending 25th April 1890.

7						Normal mesn meximum tem- perature for the week ending 2stb April.	Actual mean maximes tem- perature for the week ending 53th April 1990.	Variation of addeal mean from the normal.	Normal mean minimum tem- perature for the week ending 25th April.	Actual mean minimum tem- perature for the week ending 25th April 1800.	Variation of actual mean from the normal.	Normal mean delly tempora- ture for the week ending 28th April.	Actual mean daily tempera- ture for the week ending 28th April 1890.	Variation of setual mess from the normal.
Onitack Calcusta Darcea Burdwan Pattes Gya Muricah Hazaribagh Darjoeling	pot con	000 - 000 -	000 000 000 000 000 000 000	200 000 000 000 200 000 000 000	000 000 000 000 000 000 000 000 000	101'8 96'0 98'0 100'1 101'0 105'4 07'2 80'0	108'0 90'4 80'0 100'1 100'9 98'3 101'0 60'1	+3°8 +0°4 -3°6 0 -1°0 -4°0 +1°1 -1°8	78'7 76'2 76'6 76'4 76'9 76'0 78'0 78'7 46'6	779'9 77'8 78'0 77'9 78'0 78'0 78'0 78'0 80'8	+1'8 +1'8 -2'0 +1'5 +0'7 +1'0 +1'0 +1'8	90°8 85°6 83°6 88°8 98°4 90°7 84°6 86°8 53°3	92.4 86.5 80.8 89.0 86.3 83.1 86.3 85.1	+22 +09 -31 +08 -01 -13 +13 -02

Rainfall.—General, and in some cases heavy, rain fell in the northern half of North Bengal on every day except the last; in South-West Bengal on Saturday and Sunday, and in East Bengal on Monday, Tuesday and Wednesday; elsewhere scattered showers have been falling except in part of South Behar and Chutia Nagpur. In the former a few showers fell on the 19th and 20th in Monghyr, South Bhagulpore, and the Southal Pergunnahs, and in the latter only three showers are reported from Manbhoom. The mean rainfall for the week is above the normal in South-West, East and North Bengal and South Behar. The excess fall in East Bengal is 1.6 inches, in North and South-West Bengal 0.3 inch, and the defect in Orissa is 0.3 inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 25th of April 1890:—

al miles			1		TREE	EBATO	BB.	17.70	1			. 3	AINT	Kile.	156	28	100	
			1	wook.	Avera	ges or	week.	above or week,		Of wee	k.	R	siny di	ya.	Sinc of m	e int		1660
Marmonoz Divisi		12	Highest observed during	Lowest observed during	Of highest of each day.	Of lownest of each day.	Of mean for each day.	Average moan of whele a below normal mean of w	Average.	Normal average.	Variation.	Average number in week.	Normal average num- ber in week.	Variation,	Average.	Normal average.	Average.	Normal arefras.
Orissa	101	661	10879	73-8	93'2	80%	8616	+11	0.12	0*44	-0'27	0.2	0%	-0.3	0.38	2:00	6478	86'84
South-Wes Ber	(aga	***	113'4	001	98:1	771	87'4	+03	0.01	0188	+0:38	1'8	13	+07	1:37	2'47	54.75	85'9
lest Bongal	566	662	97:3	0414	86.4	72'6	80%	-1'9	N.86	1'98	+1'00	23	20	+1'3	4'00	2'87	88.88	80'91
North Bengal	100	240	98.6	69.9	87'8	71'8	79'6	-34	1.89	0'95	+9'85	8.2	1/4	+11	110	1.40	76.78	73'88
erth Bebar	Stat	Nec	105'8	67%	90'4	76'3	85'4	+0.4	0.52	0123	0	07	0.2	+01	0.23	0.88	68-97	80-15
louth Behar	105	***	1100	67.9	100 6	76'8	88.7	+1'2	0'25	0.11	+0'14	0.9	0.3	+0.3	0.30	0.88	4676	48'00
Chutia Nagpur	-	101	104-6*	20:4*	160.94	74'8"	87 8°	+1'8"	0'04	0:11	-0.03	0.3	0'4	-0.3	0'04	0.32	68'24	W1-45

<sup>\*</sup> Gyn and Chyebases not included,

METROROLOGICAL OFFICE, BENGAL; The 29th April 1890. C. LITTLE,

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 20th to 26th April 1890.

1	90,000	reduced			TEMP	erature.			1	I ranoments	Y.	urs.
Монтя.	Date.	Pressure at 10 corrected and recto 32" Fahr,	Daily mean.	Marimum.	Range.	Minimum,	Dry bulb at 10	Wet bulb at 10	Vapour tension at 10 a.m.	Dow point at 10 k.m.	Humidity at 10	Rainfall part 24 hours.
	18.	Indhes.				1.	0		Inches.	10 to 1	2	Inche
April 1890	20th 21st 22nd 23rd 24th 25th	29-644 -751 -704 -690 -637 -652 -772	87-9 85-9 84-5 86-6 93-5 89-9 88-4	96-0 95-0 95-0 98-8 106-2 99-4 98-5	16-2 18-2 21-0 24-5 25-4 19-0 20-2	79·8 76·8 74·0 74·3 80·8 80·4 78·3	91·6 91·1 88·6 91·6 92·6 89·1 88·6	81.5 80.9 82.5 84.5 84.6 84.0 81.7	940 918 1.030 1.001 1.077 1.099 990	77-3 76-6 80-1 81-9 81-5 82-1 78-9	64 61 77 74 71 80 78	0.0
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	The mea	п 10 л.з	a. rela	live hu	midity	of the	even d	ays	***	***	71	
The	The total	fall of	rain f	rom 20	th to 20	6th Apr	il 1890	0	***	***	1nches 0.75 temperati	

J. H. GILLILAND,

For Meteorological Reporter to the Gost. of India.

## MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 12th April 1890.

#### BIRTHS.

The births registered during the week ending with Saturday, the 12th March 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 14.7 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 6.6 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, vide the figures below :-

	1888.	1686.	1987.	1889,	1980,	Weekly average of five years.	1490.
Ratio of births per 1,000 of the population per	30.3	19'8	19'0	19:8	21.7	21'3	147

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:-

13 116			3	W	FREEE B	MDING-		11 11 11 11 11	1	VHRK« B	HDING-	
*	Towns.			2tnd March 1699.	29th March 1896.	6th April 1809.	124h April 1860.	Towns.	find March 1690.	29th March 1536.	6th April 1896.	12th April 1690.
Bardwan Midnapore Hughli and Serampore Utterpera Howrak Bali Kishnagar Banaghat Santipore Jessoro Rampore B Darjiling Dacca	200 200 200 100 200 100 200 200 200 200 200 200	100 000 000 000 000 000 000 000 000 000	0.04 0.05 0.05 0.05 0.05 0.05 0.05 0.05	24'6 17'0 24'6 21'6 21'2 21'2 21'1 11'4 41'9 35'0 30'6 31'5	24'4 20'8 25'6 41'8 28'8 10'6 17'5 26'6 10'8 18'4 51'0 30'8	25-9 10'8 25'0 33'4 9'4 16'6 7'0 18'0 14'0 12'2 26'3 14'8 8'4	10.7 10.8 94.6 11.8 14.3 14.3 14.9 19.9 19.9 17.5 15.4 15.6 14.9	Naraingnoj Ohittacong Comillah Patna Gya Arrah Monafferpore Durbhanga Chupra Bingulpore Wonshyr Purnash Poori	29'0 11'7 18'5 8'8 25'3 56'2 25'2 25'2 25'1 16'3 30'7 3'5 33'6	16'6 9'4 83'1 15'3 19'1 23'9 13'4 18 1 14'1 13'6 26'2 27'7 39'4	90.7 6.7 80.1 6.8 16.4 18.2 9.7 18.1 16.1 10.9 20.8 13.9 12.4	26 8 9 4 13 0 18 13 19 13 19 22 0 2 10 14 3 17 1 10 8

It will be seen that last week the highest birth-rate was returned from Ranaghat (29.9) and the lowest from Chupra (2.0). No births were registered during the week in Utterpara and Comillah towns.

## DEATHS.

The deaths registered during the week under review correspond to an annual rate of 27·1 per 1,000 of the population. The rate of the week is 1· higher than the average rate of the corresponding week of the past five years, and also higher than the rate of the corresponding week of any of the past five years except 1885, — vide the figures below:—

	1886.	1986.	1887.	1888.	1680.	Weekly average of five years.	
Ratio of deaths per 1,000 of the population per	33'4	26'3	157	25'8	21.7	26'1	27-1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

		WEEKS 1	ending-	-	A LINE A		WHEEL I	INDINO-	
Towns.	2md March 1800.	20th March 1890.	6th April 1590.	12th April 1800.	Towns.	22nd March 1890.	29th March 1880.	5th April 1890.	12th April 1890.
Burdwan Midpapore Wughll and Chinaurab Serampore Utterpara Howresh Pail Eishnugar Hosanda Santipore Jossore Rampore Heaulesh Darjiling Daget	\$2.0 49.6 23.0 47.1 47.1 47.1 21.8 24.8 11.4 29.9 16.0 11.2 26.3 37.0 18.2	24°6 28°7 27°7 17°7 28°8 16°3 23°6 6°7 24°0 8°8 12°2 21°0 64°8 28°7	27'8 18'8 57'8 50'6 22'8 51'6 7'8 6'0 10'5 18'4 34'8 21'3	39'0 34'1 60'7 31'4 98'3 21'8 14'0 14'0 6'1 39'4 74'1 28'1	Naraingani Chittarong Comiliah Patna Gya Arrah Moaufferpore Darbhanat Chupra Hhagulore Monghyr Purneah	6'1 11'7 49'4 18'3 41'0 16'4 4'9 15'7 14'1 18'1 14'5 22'7 48'3	8:3 7:9 46:2 17:5 66:1 16:7 17:0 25:2 11:1 19:9 9:9 54:6 39:9	8'3 47' 97'0 11'4 79'8 13'4 17'8 12'1 8'1 23'5 17'3 29'9	41.6 9 4 19.5 81.5 15.0 12.2 18.1 28.6 51.2 58.7

It will be seen that last week the highest mortality occurred in the town of Darjiling (74.1) and the lowest in Chupra (2.0).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholora.		Small-pox.	Perer.			Other can	ses.	
	Ratio per millo.	Rutio per millo.			Ratio per		Ratio ;	
Hughli and Chinsurah  Howcah  Dacca  Patna City	9:2	Poori 8:4 Howrah 2:8	Darjiling Gya Rampore Beaulosh Purnesh Poori Monghyr Burdwan	***	53·8 31·5 27·7 26·1 24·4	Serampore Midnapore Poori Kishnagae	16	7.6 3.5 1.7 . 8

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 3.2 from cholera, against 1.7 per 1,000 in the preceding week; I from small-pox, against 6; 14.7 from fever, against 12.1; 2.2 from bowel-complaints, against 1.9; 2 from injury, against 3; and 5.8 from other causes, against 5.2 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.

According to Class.

	Ratio per mille.		Ratio per mille.			1	datio per mille.
Females Ratio of male deaths every 100 female death calculated on the pr portion such mortali	ty	Christians Hindus Mahomedans	7·5 38·0 34·5	Under 1 year 1 and under 6 10 15 20	5 years 10 15 20 80	***  ***  ***	159:8 32:5 11:3 12:4 12:2 17:7
bears to the total ma and female population .				80 60 60 years and 1	40 ,, 50 ,, 60 ,, apwards		174) 22 8 31 6 91 8

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 28th April 1890.

Sanitary Commissioner for Bengul.

		Ratio PER 5 1,000 OF POTIATION 2	Vemelon, itatio of male di ever 100 femele	28.7	34.4	10.3	201	21.3	18.0	16.9	7.3	8 11.2	8.0	:	3 60.3	3.901	22.22	237.9	90) 	1 25.1	12.03	9.00	9.11.9	13.0	19.3	No.	9.08	3 31-9	9.29	91.6	8
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		NAMES OF	TIES	Bardwan	Midnaphre	Hughli and Ch	Serampore	Utserpara	Howrsh	Bali	Kiebnas ar	Benaghat	Santipore	gadere [	Rampore Beaulesh	Parjillng	Paces	Nagararan)	Chittagons	Comillah	Materia Olty	Gys	Arrah	Mosufferpore	Durbhangs	Chupra .	Shagulpore	Monghyt	Purposh	Poori	Total
		niate (CTS.		Burdwas B	1 B	Horbh H	9	Serampore {	~	:		Noddon 4		Jeanore	Bajenshye	Darithug	Parre	~	Chittagong	Tipperah	· Patins	Gyn	i	Mosufferpore	Durbhangs	aprag	Shagulpore	Monchy	Paroseh	Poor	

																					-					2				
															Mo	TORTACITY		ACCORDING	DING	_0T								1		
					强		Olam.						,	1					-			Age.								
Districts.	NAMES OF MUNICIPALL. TIME.		Des	-020MT 284 VAQ	10	1	2	710 F	RATTO PRE 1,666 OF POPULA- TION PER ANNUM.	ANNON ANNON	384-				(mg	DEATES.	·						1	EATIO PER	1,000 0 0	POPULAT	CATION PUR	20 S T M		
			.enanterrally	All nhothodia M	Buddbate.	Other elemen.	Christiana	Hindus	, en abomona k	Raddbines.	Other clames.	Undar 1 year.	.orany draban bna 1	of rebas and t	of tobmin bas of	years.	of makes been or a series of series	ot robus bas of arrest of the state of the s	years.	years and ap-	*ep.iv*	Sany 1 year.	.erang droban bas!	of tehns bas a year o	Al voher bas at Arany Arany 30	years.	No and under of	years.	00 tobau bas 00	-qu ban man 00
Bardwan	Burdwan	*		100	:				25.08 C.28				194	60	60		93		Ф1	-	10	78.8	1.90	8 23	0.29	9.91	19.1	7-8	- 12	921 8.12
Miduspore	Midnapore	:	_	36			-	22	88 1 . 43°			97	0.075		-		80	99	-	*	69	6.00	1,52	***	17.1		99.4	1.60	1.10	
Much!i	Mughli and Ohin-		-	12.	0			98	88.3 84.3	60	;		Į-o	80	86	09	80	10		4		0.65	164.0	1.09	5 14	20.00	19.0	6.99	10	80.0 100.8
Personana .	Bernumpere		-	3.6	94				W.B. 110'9	gs.		10	priss		pen	:	:		pril.	ga	4	2.900	0.83	40.	* 181	:		6 03	18.4	2.99
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	item	3	-	ž Įm		-		£ .	1.13			ent.	:	•	4 .	*	•	*	:		-	9.641	00 00 4	0.10	1		1.10	-	:	:
	Kishnagar	ž.	1	10	:				14.7 1816			ont						-	00	62	100	9.301		1	ī		:	27 20 20	9.81	0.91
Hodden	Ramphat		Ī	47	1			09	21.3			-	gat		:		ì	est.	-	ě	-	201.3	*.S	:	-			41.7		1
	Santipore		:	276					1.9 11	FII		•	1	÷	:	-		-	a45	9.4.	:	9.481				1		0.51	16.8	
Jesoto	Jesoce		1	-	1		:	100	11.6			:		:	1	è	*	*	-		*	ě	-	:	-	*	:	:	69-5	:
Rafehallyo	Bampore Bonni	less b		p-		-	:	03	367 62	9.50	:	607		400	:	900	•		-	-	500	2,790	•	0.53	* * * * * * * * * * * * * * * * * * * *	63	000	9.9.	ST'S	619
Darilling	Darjiling	1			-	-	-	00	50 C. Tol	0.98		(10)	10			;	m	91	:	:	:	8.000	\$197.E	-		:	19.0	9.52	;	:
1	Dacos	:	1	a	(1	*		25	100	365	•	84	Pin	-	-	100	15	•	<b>Q1</b>	40	10	6.7	*	94 60	92.00	98.98	10 P	1- 15	12.4	C.
2	Nataingani	;		p=0	3	2	:	-	-	74.0		en I	:	-	gerit .	:	ym e		n	+ "	end .	-	:	À	<b>P</b>	1		9	0.8	: 1
Childagong	Ubilitagrape			_			:		0.6	10.2	-	-	:			;		:		-		•	;	į	is is		10 1		!	2
Cippers!	Occalibate			-			Amo		3.7	1.8				E		;	63	1	,	1	91 5	1	1	:			2 3	: :		1
Patna		:	-	23	2.5		282		-	8.18	ĺ	end Bo		03	19	P3	•	0		• ;	= 1	000	R	72	9.01	is In	2 2	h .		9 9 9
udg	Gyn		0 2	74				•	-	9.19		9	Pro .	prof.	0		2 1	0	PL	0 (	n n		-	0 1	\$	:	9 9	1	9	200
Shahelbad				50	90		;	pur .			•	*		99			-	94 -	 E	10 -		121	:	R	3000	12.0	3	9 In	:	1870
Mosufferpore	-			0	gan			real .		P		n (	9.4	:				- 1	i			0.00	A :	: 3	2 6		3.	8.00	14.0	
Darbbangs	Darbhangs	:	***	gras erro				-		17.0				-		-	:	•	10		p	9		9		0 0	:			1
Barun	Chupes	-		24	0 .			;	99			om	-	;			:	:			-	200	10.1		1	1	· ·		: !	1
Bhagnipers	Shegwipere	-	-	- 31	107	1		ei .		1.01		•	24	*		81	e5	gert .	10	e4 ·	90	174.0	19.5	9.98	:	is i	2.91		0 8	73 -
Monchyr	Monthlyr			8	10	-		4	41.10	20.3		FF3	10			99	0	•	-	-	9	1.90	- 2	:		0 77	R S	2 1	n 6	2
Pur nesh	Porses		1	9	10		1	64	-	9	_	-	Ť	01		ŧ	89 I	am)	-	1	em (	22	1	5.93		0 0	0.70	10.7	9 9	i g
Peori	Poori	:	**	Si .		1	2	1	57 T 367 G	9	+	en -	24	:		0	2	99 ]	00	•	1		200	:				1		
	,	-																							4 400.0		- W - W			

OFFICE OF BANTLARY COMMISSIONER FOR BENGAL,

W. H. GREGG, Dip. Fubl. Brullh, Camb.,

## CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 26th April 1890, as compared with the corresponding week of the previous year.

				DING SATURD U APUL 1890.		Wank and 27	DIEG PATURD TH APRIL 1846	AY, THE
NATURE	rood		Number of boats.	Weight of cargo,	Tolinge.	Number of boats.	Weight of cargo.	Tollage.
2	and paddy		No.	Mds.	Rs.	No.	Mds.	Rs.
Rice and paddy Jute Firewood Other articles	***	000	224 14 72 612	44,370 14,600 34,650 1,58,725	620 121 515 2,871	234 19 121 641	68.955 9.050 87,410 2 51,425	962 185 1,011 <b>2,</b> 764
	Total	000	922	2,52,345	3,627	1,015	4,11,840	4,87

### Nalhati State Railway.

Statement showing Increases and Decreases in tonnage of Staples carried over the Nathati State Railway during the month of March 1890, as compared with the same month of the previous year.

			168	10.	101	0	Tot	ai.	increase.	
St a Plub.			Up.	Down.	Up	Down.	1889.	1490.		Decrease.
			Tons.	Pone.	Tone.	Tons.	Tons.	Tona.	Tone.	Tons.
Cotton, raw	400	***	3/18 7	919194	065	*****	7	900.		7
Cotton piece-goods 1 Buropean	994	991	23	20111	35	*****	88	33	. 3	100000
Orums		100	*****	32	171		10		*****	12
2.—Rice		001	10	231	24	507	241	650	400	******
3Grum	1.87	124	004 on	28	40	19	24	111	40	-
Bides and skins-		201	18	4		1.0				******
1.—Hides of cattle— a.—Dressed		11			000701	3		å	3	404000
animals—		4		,		1	1	1	******	i
Jule-			9.00 + 4 +	1	\$0 a + 4 +	119	410.100	119	119	yer-ed
1 Raw 2 Gunny bags and olot	ly a	***	9	5 B	15	3	14	20	18	100.00
Leather manufactured		497	il		2	1	8	3	1 043100	ā
1.—beer			1	944830	1	******	1	3	1	1
Metale—	9.7	***					6	- 6		
2.—Iron		e/6 *	6 8	1	7	8	3	13	9	
Gslo-			1		2		1	2	1	111 21
1.—Castor		1	1	844		160.00	1			1
1 Kernetite		***	b	******	991	P84 111	9	47000	00000	
Orlaneda-		1	3	40	4	94	82	96	46	44111
1 Linered		***	122		80		122	au	0.00 =0.1	92
6. Others		201	8	441.11	******		8		099+6+	8
Provisions-					2		. 2	2		******
1.—Ghee		***	2	44	1	*****	4	1	*****	8
2.—Drud fruits and puts		***	27		110000	*****	27	10000	11140	27 h
Paner and pasteboard			5 68	19	46	19	100	67	******	33
hallway plant and rolling-stock			28		61	*****	223	61	23	##100n
Salt		***	17	90		28	87	30	000-10	7
2,-Indian	***	206	4.9	4.	-			a		
2.→Indian :-	9+4	***	.1	•	019014	5		7	7	0:00
2 Others	141		149114	400		7	27	20	414.505	A
Stone and lime	***	• • •	27	64111	23	*** **		-	,	
Bugar- 1.—Drained		***	88	*****	38	905010	39	35	3 48	*** 00
2Undrained		***	1		12	B P1 + + 4	1 20	12		
Tobacco		***	16		8	101111	*****	8	8	10110
Timber		***	1	010000	4664	*****	1	101111	HT 11	1
All other articles of merchandis		611	88	98	311	34	110	154	366	11100
	Total	41	960	394	1,447	937	1,354	2,374	1,274	154

	Incan	ASS.				Tons.
2.1				***		293
This is attributable to decrease during last us	nn th.		* * * *	***	***	
Grains-						
(2) Rice	4 9 0		***	100	***	409
This is due to greater export owing to high re		itta.				
(4) Others		114		***	***	40
This is due to import of indigo and huara seed	la.					
Oil-seeds—						
(1) Linseed	800			100	100	46
This is attributable to high rate at Calcutta.						
Jute-						
(1) Raw	***	> u d	14			119
This is due to there being no traffic under this	head last	year.				
Suit	9.1	** 8	104	* * *	***	33
This is due to sudden increased demand at Mu	rebidabad.					
Sugar-						
(3) Undrained				***	019	48
This is imported owing to greater demand at I	Murchidaba	d.				
	DECEBASE	n,				
Grains-						
(1) Wheat	-		= 0.0	4 4 4	100	12
No demand owing to dull market.						
(3) Gram	***					28
No demand owing to dull market.						
Oil-seeds						
(2) Mustard and rape	***	444	9 + 9		+ 4 4	92
This is due to there being no local demand.						
Provisions—						
141 Oalous				0.00		9.7
Potatoes being imported by boat.	400	* * *	***	0.00	***	400
Hailway plant and rolling-stock		***				33
Owing to less materials carried during the mo	nth.	• • •		b e		dese

R. G. Mookerjee,
Manager, Nalhati State Railway.

## Weekly Return of Traffic Receipts on Indian Railways.

## EAST INDIAN RAILWAY.

Approximate Beturn of Traffic for week ended 19th April 1890, on 1,5264 miles open.

	COACHIN	O TRAFF	ic.	MERCHAPI		PPIC.	IN IB A		Other on	rncod				TRAIR-MIL	BO RCF.
	Number of passengers.	Recei	pte.	Weight carried.		Rooms	da.	п	(estima		fota) ear	, es figura	Conching.	Merchan- dine,	Total,
		Ro.	A. P.	Мра.	A.	ite,	A. P		Ra.	A. P	Bo.	A. P.		1	
Total traffic for the week Or per unie of railway For newspara 15 works of half-	263,817	3,02,344		24,99,121	10	6,96,495 386			\$0,150 13	7 A 4 S	9,29,661			101,5105	107,620
7007	3,854,925	43,58,539	8 0	8,95,99,167	30	P ,53,200	1	h	2,97,100	9 9	1,34 56,494	2 9	975,490}	1,433,4311	2,408,9111
Total for 16 weeks	4,118,745	46,90,584	2 0	4,20,59,250	0	97,51,785	13	0	3,17,488	0 9	1,47,08,757	13 19	1,041,961)	1,514,980	2 876,34)
COMPARISON.											(				
Total for corresponding week: of previous year Per mile of railway correspond-	283,363}	2,96,501	9 10	29,51,772		6,26,814	14	6	20,101	14 3	9,45,418	6 6	66,000	99,480	165,060
ne work of previous year Total to corresponding date of	4,846,936	194	5 10	4,44,58,500	10	412 94,93,036	7	1	13 2,57,866	2 10	1,48,40,490	6 4	1,069,885	1,540,938	2,599,287

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

	re por Whei THE APRIL IS			o por wrek n April 186			PRIL 1889 TO 20 APRIL 1889.			PAIL 1890 TO H APAIL 1890.		Total	Total
Wean nilenda parked.	Rescipte.	Par mile worked	Menn milange worked.	Receipts.	Per mile worked.	Mean mlleage worked.	Total receipte.	For mile worked pur work,	Menn mileage worked.	Total receipts.	i'er mile worked per week.	Impo,	decima il
	Ra.	Ro	1	Ra.	Ro.		Be-	Ro.	!	Bo.	Ro.	Ro.	Ro.
1.5856	9,46,414	620	1,385}	9,23,003	606	1,525 į	27,14,016	200	1,8251	25,98,170	ade	600 101	1,16,446

### PATNA-GYA STATE BAILWAY

Approximate Return of Traffic for week ended 19th April 1890, on 571 miles open

	Оолошина	TRAFFIC	3.	Manonari	IBN . RAFI		HEA		Other earns	63 Of 20	Total nor	rs 5 ff5 ar		PIC 1	MAST-MILE	BUS.
	Number of passengers.	Becaus	244	Weight carried.		Receip	188.		(estimated	1.	1014	19 3 3 4 4	Coach	stuff.	Merchan-	Tota.
		Re.	A. P.	M ma.	8.	Ba.	A. 1	P+ j	Ba. A.	P.	Ro.	A. F				
Or per mile of railway	16,000		1 0 19 0	80,847 1.80	30	8,736 65	7	7	48 4 6 13	0	10,798 188	13	1.	480	914	2,304
Por previous 15 weeks of half-	198,476	1,03,397	16 0	7,94,797	30	44,905	15	0	574 8	0	1,48,878	0	28,	3261	10,231	35,757
Total for 16 weeks	215,130	1,10,418	15 0	7,75,595	90	48,040	6	0	617 7	0	1,69,076	13	27.	004	11,145	39,151
Companies.																
Total for corresponding week of	18,413	6,099	12 0	48,627	30	3,304	11	0	48 18	6	9,458	6	0 1,	613	R93	2,50
bas mile of surrant posterbond.	234	106	10 3	7-th	10	87	12	6	0 13	3 8	106	4	6	. 0	401.11	100 an
Total to corresponding date of provious year	265,6416	1:50,743	1 7	6,81,921	0	\$7,539	8	0	1,353 11	5 19	1,68,610	10	4 29	316	10,008	39,7%

Approximate Statement of grass receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

Rucutri 201	e son where	ERDING		TH POR WARE			L RECRIPTS FRO PRIL 1689 TO M APRIL 1889.			ARCHIPTO FROMEL 1890 TO 18 APRIL 1890,		Total	Total
Mean mileage worked.	Lecaipta.	Per mile worked.	Wean mileago worked.	Receipte,	Per mile worked.	Mean mileage worked.	Total receipts.	fer mile wirks per wink	Menn milango worked.	Total receipts	Per mote wered per (week,	ingresse in 1890.	decremen in 1869,
67)	Ra. 9,483	Ra.	871	Ba. 10,799	No. 199	67 <u>1</u>	No. 31,032	Ro. 181	87}	Ro. 31,047	Ra. 181	<b>Re.</b>	Re.

## TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 23; miles open.

	COAURING	TRAFFIC	7.	MRHGRA SPISS		1	Other carr	nin	RS.	Tota	1	TRAFFIC	TRAIN-MIL	RS Rt n
	Number of passengers.	Receip	ta.	Weight encress.	Receipts.	The same of	(ostimut)	M,		ournin	po.	Couching,	Merchan- dim.	Total
		Ro.	A. P.	Mns. s.	Ro. A. 1	P.	Ra.	Α.		Rs.	A. P		i	
Total traffic for the week Or per mile of rathway For pravious 15 weeks of half-	28,036		15 0 13 10	13,207 10	40n 18 18 0		9	6	D	9,283	1 0 6 11	1,091	316	1,50
Year	889,774	67,894	8 0	2,20,876 20	7,480 12	0	157	18	0	96,533	1 0	13,094	1,448	3 1,643
Potal for 16 weeks	388,410	96,700	4 0	2,54,083 30	7,881 11	0	167	3	-0	1,04,818	5 0	14,185	1,033	15,84
COMPARISON,														
Total for corresponding weak of pravious year Per mile of railway correspond-	22,465	6,214	7 1	7,645 10	298 13	0		13			0 1	937	83	901
ing week of previous year rotal to corresponding date of	******	279	4 10	226.44	18 6 1	0	0	7	0	293	9 8	1	### A.B	*****
brasion fort	\$79.157E	1,00,012	10 2	1,51,614 90	5,460 3	0	113	6	0	1,06,186	1 2	14,789	PAS	15 77

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

Rudui er 10	FOR WHEK TH APRIL 18	nydin G 89.		ys for which oth April 18			APRIL 1889 TO S APRIL 1889.			L unceipts pro Juli, 1800 to 16 April 1800,		Total	Total
Menn milenga- wacked	Baqqip <b>in.</b>	Per mile worked.	Most odlesse worked.	Receipts.	Per mile worked,	denn mileago worked.	Total recaipts.	Per mile worked per week.	Moan milenso worked.	Total receipts.	Per guiler worked per week	1500.	documen a
1	Rs.	Hu.		Bn.	Ra.		Ra.	Rs.		Re.	Re.	Rs.	Ra
201	6,523	293	223	9,285	417	22)	27,021	375	181	23,535	333	000 101	1,4/51

## EASTERN BENGAL STATE BAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Beran Sections.)

Approximate Return of Traffic for week ended 12th April 1890, on 747 miles open.

k	COACHIN	o TRAFF	IC.	Мансиля		BAND MAI	JIT TILL	RAL	Other or	ated).	Tot	al	TRA	PPIC	TRAIN-MILE	es Run,
	Number of passengure.	Coach		Weight ourred.		Recei	ptı		storm-		OSF41	ngo.	Conci	hing.	Merchan- disc.	Total,
		Re.	A. F.	Mae.	s.	Ba.	<u></u>	. 2.	Ba.	A. P.	Ro.	A. P				The Atlantic Manager
Total traffe for the week Or per main of railwas Per previous 14 weeks of unif-	151,070 302	77,946 104		6,32,170		86,840 116		0	14,000	0 0	1,78,870		h 1	1,907	20,533	82,58
Age to the second of mental of	2,252,060	11,04,863	0 0	79,94,750	0	15,07,888	0	0	8,67,916	0 0	*28,80,633	0	0 813	,467	418,776	727.63
Total for 15 weeks COMPARISON.	8,405,130	11,82,503	0 0	56,30,980	0	15,94,698	0	0	2,82,906	0 0	30,00,003	0 (	316	,854	443,309	700,16
Total for corresponding week of pearious year.  Per mile of railway corresponding period of previous year.	284,468 200	62,650	• •	4,85,788		06,703 00		0	12,068	0 0	1,40,980			,607	22,906	64,811
Total to corresponding date of	5,240,598	11,62,344		74,16,080	6	12,63.610		0	3,65,616	0 0	26.91,819	0 (	881	.421	365,790	6A6,21

<sup>\*</sup> Audited up to week ending 6th February 1850, † Excluding steamer cursings.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

		POR WHEE APRIL 1886			TO FOR WEEK			L MEGRIPTS PROPRIET TO 12 APRIL 1889.			RECEIPTO PROPERTY APREL 1890.	PBE	Total	Total
Mean miloare worked.		Receipte.	Pur mile worked.	Moan mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total recupte.	Per mile worked per week.	Mean mileage worked.	fotal receipts	mile worked per week,	1189-90.	1880-00.
673	,	Re. 1,40,500	Re.	747	Ra.	Ro.	473	Rs. 2.96.561	Ra. 213	747	Ba. 3.02.440	Rs.	Ba. 16,127	Re.

## BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 12th April 1890, on 125 miles open.

	COACETE	TRASS	G.		MREGRAPH		AND MID	BE	AL	Other ma			Total	- 1		TRAFFIC	TRAIF-BILE	d ars.
	Number of passengers.	Coach			Weight carried.	į	Reneup	Ha.		(out the			oarum			Conching.	Merchan- due.	Total,
		Re.	۵.	P.	Man	8.	Ba.	Δ.	P.	Ba,	4.	р.	Bla,	4.	P.			
Fotal traffic for the week Or per mile of railway For gravious 14 weeks of half-	27,440 219	8,730 70		0	80,440 477	0 0	8,530 -81	0	00	40	-	0	13,400	9	0	2,735	1,987	5,67
Aug	200,000	1,20,610	9	0	6,84,190	0	48,874	8	0	770	0	0	*1,82,160	0	0	50,697	96,810	77,216
Total for 15 weeks	427,360	1,40,740	0	0	7.16,234	0	67,204	0	0	810	0	0	1,91,748	0	0	84,452	28,409	R2,500
Potest for corresponding week of previous year. Per mile of railway correspond-	\$8,001	7,846	6		44,530	0	2,967		0	73		0	10,984	0	0	8,7:8	1,987	£,675
rate period of previous year . Total to corresponding date of	184	- 66	0	0	Affect	0	24	0	0	1	0	0	80	0			100.00	por
Beaging Adult " " "	481,716	2,51,619	0	0	948,825	0	45,390	0	0	4,486	0	0	3,01,868	0	0	55,019	20,401	83.86

<sup>\*</sup> Audited up to week ending 8th February 1890.

## PINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

1511	s por wars n April 18-	97.	127	s Por Werr R April 189		APRIL	L ANCRIPTA FA 1880 TO 18TH 1880.	APRIL.	APRIL	L ANGRIPTO PRO L 1990 TO 1270 LEGO.	M lor Arnil	Tota!	Total
Hess lease recod	Receipts.	Per mile worked.	Maan mileage worked	Recespts.	Per mile worsed.	Mean milean worked	Potal rescripts.	Per mile worked per week.	Monn citieser worked,	Total receipte.	for mile worked per weak	increase in 1889-90.	decrease in later in
126	Ra.	Bo.	1205	No. 32,600	Ro.	125	Ra.	Ra. 24	196	Ro. 20,404	Re.	Ro.	Bo.

## DACCA STATE RAILWAY.

Approximate Beturn of Traffic for week ended 12th April 1890, on 86 miles open.

	COACHING	TRAPPI	c.		MERCHARD		PIC.	JL/	L	Other ear	min	m	Tota	1		TRAFFIC	TRAIR-MILE	a grag
	Number of passengers.	Coach			Weight carried,		Receipts	в.		(cutammat			OBLITTE	ÇII.		Coaching.	Herchun-	Total.
		Rn.	A.	г.	Mps.	n.	Ra, z	۸.	P.	Rs.	Δ.	P.	Ra.	Α.	P.			
Total traffic for the week	15,170 176	5,490	0		23,710 276		1,710 20			880 4	0		7,580		0	2,040	671	3,100
And the stores of many	244,250	80,669	0	0	8.75,380	0	86,748	0	0	2,447	0	ô	*1,08,604	0	0	31,885	10.228	11, 500
Total for 15 weeks COMPARISON.	243,400	94,959	0	()	3,169,070	0	88,434	0	6	1,027	0	0	1.56,244	#s	0	305, 3 ···	30,412	96 (
Total for corresponding period of previous year Per mileof railway corresponding	22,394	5,802	0	0	5,613	0	465	0		50	0	0	6,917	0	0	2.537	8.60	che
period of previous year Total to corresponding date of	200	64	0	0	65	0	5	0	0	1	0	0	70	0	b		}	
beasions has	242,208	73,721	0	b	1,77,376	0	15,618	0	0	2,439	0	0	91,750	0	0	36,610	10,091	40.707

<sup>\*</sup> Audited up to week ending 8th February 1800.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Danca State Railway.

Bacutyr 13	en April in	NWDINO	RECEIPT	rs for wher en Arail 188	nnuino ).		. RROETTH FUO 1860 TO 18711 1880.			TECETETA FRO L mad to luth 1600.		Total	Testal
Mean mitenze worked.	Receipts.	Par mile worked	Mean atlanco worked.	Recoipts,	Por mile worked	Mean willouge worked.	Total receipts.		Mean miles	Total receipts	lier mode wored per week	incresse in 1889-90,	dromad in
	Ra.	Ra,		Ra.	Rs.		Re.	Ro.		Re,	Ra.	Re.	Ba.
116	6,017	70	816	7 550	68	86	11,125	68	86	13,6%0	69	2,553	97-1-0

## NALHATI STATE RAILWAY.

Approximate Roturn of Traffic for the week ending 19th April 1890, on 271 miles open.

	COACRING	G TRAFF	1c.		MRHOMAN		PPIC.	N M	MAI	Children au	derma a co		Beer	4		TRAPEIC	TRAIN-MILE	m nua.
	Number of passongers.	Conch rucus o			Weight carried.		Rocei	pta	l,	(Other ex			Tota			Conening	Morohan-	Total
		Ru.	A.	r.	MDs	8.	Ita.	Δ	P.	Ita	Δ.	r .	Ra	A	j.	1		i
Total traffic for the week Or per mile of ratiwas For previous 1s weeks of half-	3,163	1,101	0		9,835 360		23 245	0	0	16	0	0	1,830		0	809	254	763
your	46,631	17,456	0	0	2,05,892	0	12, 600	0	Ū.	1,393	0	0	31,240	0	0	7,417	7,103	14,525
Total for 13 weeks	21,003	ES,037	0	0	2.15,147	0	13,049	U	0	1,409	0	υ	SECHRIS	0	0	(7,5mbs)	7,369	15,28
Comparison,				-														
Total for corresponding week of previous year	2,568	1,451	0	0	8,417	0	397	0	0	15	0	0	1,543	0	0	509	254	763
the week of previous june	169	48	0	0	190	0	14	0	0	1	0	0	57	0	0	270,000	194.00	W01.041
otal to corresponding date of	54,248	20,548	0	0	1,68,146	0	11,106	0	0	1,415	0	0	33,160	0	0	7,008	7,593	15,50

## FINANCIAL YEAR.

Approximate Statement of grove receipts of the Nalhati State Railway.

	TO POR WENE		Receir 191	TH PON WEEK	W. BRDING		PRIL 1889 TO 20 APAIL 1889.			L RECREPTS PRO APRIL 1890 TO 1 APRIL 1890,		Total	
Mean hilescel	Recoupts.	plas mis worked,	Mean mileuse	Beceipts.	Per mile worsed,	Mesn oil-and vorked.		Por mile worken par work	fican muradi worsed	Total receipts.	Per mile worked per neck.	increase in large-vi.	Total decrease in 1800-91.
	Ra,	Bo.		Ro.	Ra.		Ba.	Sa.		Ra.	Mo.	Ro.	R.
27)	1,643	87	171	1,630	67	51.5	4,929	02	271	4,767	8.8	144100	163

## TIRHOOT STATE BAILWAY.

Approximate Return of Traffic for the week ending 19th April 1890, on 373 miles open.

	COACHIE	o TRAFF	zc.		ERECEASE		AND USI	730.)	LAL	Chah						TRAPPIC	TRAIN-MIL	30 BUT.
-77-	Number of passengers.	Conch			Weight carned.		Recot	rt p.		Other on (out)ma			Tou		•	Conching.	Morchan- dias.	Total.
Commence of the Commence of th		Bo.	A. I	P.	Mon.	6.	Re.	A.	2.	Ro.	A. P.	T	Bo.	Δ.	P.			
Total traffic for the week	47,610	19,787 78			9,88,467 851	0	27,394 100		0	2,016	0 0		49,900 176	0	0.0	8,683	7,448	18,005
For previous 14 weeks of half-	706,793	2,91,187		0	39,04,216	0	4,43,907	0	0	48,897	0 0	7.	,81,201	0	0	70,741	143,890	220,877
Total for 15 weeks	783,303	3,11,944	0	•	41,28,648	0	4,70,501	0	Đ	48,738	0 0	8	,31,200	D	0	82,168	101,570	933,448
COMPARISON.																	_	
Tatal for corresponding week of previous year	48,003	18,224	0	•	1,86,100	0	14,071	•	0	8,224			38,680	0	0	4,003	8,400	10,000
Per mile of railway correspond- ing week of previous year	171	67	0	0	079	0	61	0	0	1			119	0	0.	110 000	40 0 0000	******
Total to corresponding date of previous year	680,183	2,80,366	0	0	21,86,625	0	1,09,346	0	0	88,460	0 0	1	<b>21</b> ,079	0	0	80;490	95,500	171,720

<sup>\*</sup> Seem-best cornings excluded in calculating "Total carnings per mile of Bailway."

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirkoot State Railway.

TOTAL RECEIPTS PROM SET APRIL 1890 TO 19TH APRIL 1890.

Mean soilesgo worked.	Becuipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile worked.			Per mile worked per week.	Mean mileage worked.	Total receipts.	raile worked pur week,	fucroase to leve-91
	200	Ro.		Ba.	Ra.		Bo.	Ra.		Ro,	Rs.	Bo.
273	35,800	180	983	₩,900	163	973	1,08,700	189	273	1,96,946	187	20,946
		DA	RJEEL	ING-HIM	ALAYA	IN BA	ILWAY O	OMPAI	NY, L	IMITED.		Re.
				rnings for period of 1		ding 29	th March 18	390	***	100		10,781 12,588
			Docrea		000		00+	000	peo	***		1,802
		Receipt	per mil	le for week period of 18	ending		arch 1890	***	000	004 000	21	1 6 8 6 11 9
			Decreas	10 -	***		001	000	edn	***	8	5 5 6
ş.		Receipte	from le	t January eriod of 18	to 29th 1 89		LA90	***	eee ede	986 983		1,06,448 1,08,790
			Decreas		***		400	, mba	100	000		2,842
			DARJE	ELING-H	IMAL	LYAN	RAILWAY	COM	PANY	LIMITED		Rs.
-11				nings for w priod of 188		ing 5th	April 1890	•	***	00 o		11,495 9,487
· ·			Increase		000			0.4	900	***		2,008
				e for weel eriod of 18		6th A		00	***	000	Ra 22 18	5 6 8
			Increase	•••	***		***		***	***	31	9 6 0
				t January priod of 188					***	***		1,18,343
			Increase	000	000		000 =0		601	****		66



# The Calcutta Gazette.

WEDNESDAY, MAY 7, 1890.

## OFFICIAL PAPERS.

Non-Subscribers to the Gazuttu may receive the Suprement separately on payment of Six Rupese.

per annum if delivered in Calcutta, or Twelve Rupese if sent by Post.

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# RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

## GENERAL DEPARTMENT.

Calcutta, the 17th April, 1899.

## RESOLUTION.

The rules sanctioned last year under Bengal Act I of 1889 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next:—

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to

19. The agent shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may

come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed

the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct

to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholera occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholera hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depôt from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places

of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act. I of 1882.

The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to travel.

65. The contractors or garden sardar shall provide for emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one cunce of sugar to each emigrant of and above ten years of age, and laft the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained. obtained.

Rules to be issued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN.

#### FOR THE SPECIAL CROPS IN BENGAL OUTTURN OF RABI AND YEAR 1889-90.

THE following papers are published for general information.

By order of the Lieutenant-Governor of Bengal,

REVENUE DEPARTMENT AGRICULTURE; CALCUTTA The 5th May, 1890.

P. NOLAN.

Secretary to the Government of Bengal.

Outturn of rabi and special crops in Bengal for the year 1889-90.

THE present season has been unfavourable to the rabi crops in some respects. The excessive rain which fell in the middle of November last destroyed the seed of rahi crops, excessive rain which fell in the middle of November last destroyed the seed of ratio crops, which had been recently sown, and made it necessary in many places to have the lands sown over again. The injury from this cause extended over the whole of Orissa and Bengal Proper, except the districts of Dinagepore, Julpigores, and Darjeeling in North Bengal. It is estimated that in Orissa and Bengal, taken together, fully one-third of the rabi crop was lost on account of the excessive rain in November. Deficiency of rain during the time of preparing and sowing rabi lands was, on the other hand, felt in several districts of the Patna Division and in Dinagepore, while the absence of rain in December, January, and February reduced the outturn more or less in all districts of the Patna, Bhagulpore, and Chota Nagpore Divisions. But for the latter cause, a full average crop could have been Chota Nagpore Divisions. But for the latter cause, a full average crop could have been reaped in these divisions. Taking the whole of Bengal, the outturn of the rabi crops of the present season may be estimated at 13 annas.

2. Statement IV annexed to this note shows the estimated outturn of the more import-

ant special crops, such as sugarcane, tobacco, poppy, indigo, mulberry, jute, &c.

Sugarcane suffered more or less from deficiency of rain in all districts of the Burdwan Division, except Beerbhoom in Nuddea, Dinagepore and Julpigoree in Bhagulpore, and the Southal Pergunnahs, and probably also in Patna, Shahabad, Lohardugga, and Manbhoom. Injury from floods is reported from Dacca and parts of Nuddea, Jessore, and Moorshedabad.

In the districts of the Origen Division and in Midnapore and parts of Hoophly this In the districts of the Orissa Division, and in Midnapore and parts of Hooghly, this crop was largely damaged by excessive rain in November. An average crop was reaped in the districts of the Patna Division, except in parts of Patna and Shahabad.

The tobacco crop was below the average in Rajshahye and Dinagepore, but is estimated to have yielded a 12 to 16 annas crop in the important tobacco-growing districts of Rungpore, Bogra, and Julpigoree. In the Mynagoree teheil of the Julpigoree district the crop is reported to have been very seriously damaged by hailstones.

3. Poppy was injured to some extent by deficiency of rain during the cold weather in Patna, Shahabad, Mozufferpore, and Bhagulpore. In Gya, Durbhunga, Sarun, Chumparun, and Monghyr it yielded a nearly full crop.

Mulberry did fairly well in Moorshedabad and Midnapore, but in Rajshahye, Bogra, Nuddea, and Beerbhoom the yield is estimated to be about three-fourths of an average crop.

M. FINUCANE,

Director of the Dept. of Land Records and Agriculture, Bengal.

The 15th April 1890.

# STATEMENT HI.- Estimated Outturn of Rubbes Crops for the year 1889-90.

1	1 8	1 3		8	6	7	8	•	10
) mraics.		Total area of sub-division in square mailes.	Total area estimated to be under cultivation in square miles.	Estimated area under rubbee erops in square miles.	Names of principal rubbes crops of sub-division.	Retimated out.uvn appressed in arran of current year's rubbee oropa.	Estimated outturn of powners year's rinbben grops.	Remarks by the Collector.	Remarks by the Directs of Agriculture.
	1			ļ	BURDWAN	DIVISION.			
	Quint	1,546	998	6790	Pean Kulai Kheseri Ginger Linseed: Barley Onion Oata Potsko Musturd Wheat Linseed Linseed	13 anges	11 annes	Pulses were injected by the last November rain.  Ditto ditto.	The November run affer all rubbee crops more less. Pointo was speci injured by it.
rdwan	Cutwa	Sings 6073.	208	14" {	Pointoes Pulses Olimends Wheat Oram Pens Kheenri Rarbay Rustard Til Linnedd Arliar Wheat		10 ,,	Dine ditto.	The ratical is Noves was also excessive in Ra- guages, but the high undulating nature of ground prevented injury
	District Foul	2,697	2,906	, 166:00	poly of		*****		
anhoura	Bishenpore	1,003	670	11 0, 11 0,	Wheat Barley Pulses (mutur, mussor, &c.) Mustard Surgeoia, &c. Conton (tarpas) Wheat Barley	)	6 anmas	Executive rainfull in last Nov- ember affected the rubbres cups of this embors, whereas deficiency of rain was he cause of the poor outturn of the previous year's crups.	in Burdwan better come careed than in Banko authough the rainfell equally excessive in tentral districts. The comptively low outturn man parely attributed to war rain during December, nuary and Pobrusty.
	Ŧ	8	f	10 20	Philoso Mustard	, ,	30 es	The excessive rain of last No- vember injured the rubbee crops then standing, via., quantard suit pulses; conse- quently the lands occupied by these crops were reserve with wheat. The outsure per zero on area, sawn also was affected by the Neven- ber rain.	
Beer.	District Total Scory (Sudder)	1,100	1,000	18 1 16 . 10 17 . 5	Wheat Gram Mustard Puisso Linasod	10	12 annee 13 14 10 11	Wheet was injered by rain whichfell between 14th and 21st November:	The rubbee cross appearance the continued drownich followed the case
į	Rampure Shi	648.	446	. 6, . 8	Whent Gram Mintard After Philon	110 00	8 10 10 8	Wheat was injured by rain which fell between litheand than November. Gram and numberd suffered facts the Moreanber rain.	
	District Total	1,756	1,335	96.	* * * * * * * * * * * * * * * * * * * *	*****			
ſ	Buddet	3,508	1,707	\$87	Moong Hiri- Limood Gram Musoor Mustard Kalai (moong	9 amnas	13 80006	The rubbee crops suffered a good dear from the encounter ram of November tast.	
idna-	Coutsi	881	710	a	khoneri, mater, 20.) Oil-sends (til.	11		Ditto ditto.	
	Chattal	205	500	18	mustard, Ac.] Pulses Mustard Biri		0 31	Ditte ditto.	
Į	Tu micok		405	60*125	Khomri Pous Linesed Surptorja Srinjal and other vacotables.	10	16 ,,	Dinto ditto.	,
	District Total		3,170	707'125	Maguri	10 appea	13 annae	The cutturn was below the	The Collector's remark
aghly	Sernespero	268	200	176 16 20 150	Pointo Pulses Muntard	10	18 16	average owing to the scarrity of randall at the time of sowing. The randall was not sufficient at first, and the heavy rain that fell afterwards affected the outturn of the rubbes	her time in the Sudden Herampure out by the fall records. There as to have been as post
	Johnnabad	606	200	20	Maguri Peans	1	10	The loss of 2 annas in the out-	Jeliananad suo-civia
1	Howrah	178	96'5	81 {	Kaial Kheaari Alusoori Peas Mustard	10 ,,	15	turn of rubbes crops was due to a flood in November last. The rainfall in last November affected the outturn of the	

3	3	8	•	6	•	7		6	10
raiot.	Bub-division.	Total acea of sub-division in square miles.	Total area satimated to be under outlivation in square miles.	Ratimated area under rubbee crops in square mises.	Names of principal subbedivision,	Betimated outturn expressed in annus of current year's rubbes erops.	Betimated outturn of provious year's rubbee crops,	Bomarks by the Obligator.	Remarks by the Director of Agriculture.
					BURDWAN O	NOISIVI	concluded.		
thly- sold,	Uluberiah	alio	200	7 7 6	Minsoor Khesari Watermelone, po tate and utches and arher. Mustard Linesod Peas	11	16 annæ	The rainfall in but Movember affected the outsure of the rabbee crops.	
	District Total	1,000	1,008'75	8 80	Bore		+00100		
18					PARSIDENCY	L DIAINIO	ſ,		
	Sudder and amelgameted part of Su- burbs, includ-	1,070	767	10	Pulson, via : Kulai Musoor	10 same	13 anna.	400-0010-04	No explanation of the
	ripore, Diamond Har-	63.8	466	8	Gram	}n	20		the Collector. The excession rainfall of Novemburt bave affected the o
	Borneth	***	340	13	Kalai Gram	1.	20		surn. In Barnest and sirbat the outturn bes bably been under estimat
Per-	Bacirbas	8.00	480	3 1 10	Gram	1	80 m		
				*	Rape-seeds				
	Bermekpere	40	5.0	11004	Gram Moong Munoor Muntard	19 13 13	ls		
į	Dun-Dun District Total		81	1 90	Pena	4 11	Nii		
í	Budder Batkhira Bagirhat	1,673 44 1,27: 88 1,4:8 63	1,006 300 410 50s	100	Oilseeds, vix., Til, linveed, mustard, &c.		*** (4:		
otaa (	dary," thats and rivers of the Sunder-	60%	110000	90 51 6	Musoor Turmerio Chilis Kaini	19	# names	The exposerve mainful at the latter part of November.	The minutell records of pufficient rainful in
	buns in this district.			16 17 2 3 3	Pean Khesari Arhar Mooog			which delayed the garmina- tion and retarded the growth of the rubbee grops, and the deficient rainfall during the	district in Pecember a
	District Total	4,640.91	1,350	11g	Others			rest of the year, diminished the outsiers.	
					Wheat, bucky, outs, mustard,		12 anne	Execusive fixed and consequent	
	Duthier	761	484	180	linseed, pess, gram moong kalai, museer, til.	il	-170	deposit of sits-did some good to some of the rubbse cross, but others suffered from the heavy fail of sain in Novem-	
	Okundanga	487	679	838	Wheat Minoor	8 11	6	Much injury was done to the rubbee crops by the run which fell in November last.	The extremely low cutture rubbee crops in the Che dange and Ranghat a divisions cannot be who
					Mustard Moong Kulai Pong		4	which foll in November that.	divisions cannot be who accounted for by the except rainfall of November Arhar, moong, and halas,
Mag	Kantan			140 <	Mustard, khesa ri, moong, mas kalai, mus-m wheat, bariey	1110		Ditte ditto.	of which were in full grown at the time of the Nove ber rain, could not posses be injured to the extent
		300	418		choena, gram lineed, til pras. Kalai		1	,	14 arms by the excess rain in Chromianga. T Collectors outlante man be accepted.
					Moone Arner Wheat Barley	10 ::			
	Mohorpore	007	800	280	Peas Musour Rapo-sand	16	in to 7 sa.	Ditto ditto.	
					Til Gram Linwood Chillen	} 16 } 10			
					Wheat Barley	h			
	Reneghat	497	986	1.93	Peas Pulses Mustard Linnond		15 annae	Dite8 ditto.	

1		8		1	6	7	8	9	3.0
DISTRICT.	Bub-division.	Total area of sub-division in square miles.	Total area estimated to be under cultivation in square inities.	Retimated area under rutituo oropa in equare miles.	Names of principal rutiline crops of aub- division.	Betemated outliers expressed in atreas of ourrent year's rubbee crop.	Batimated outturn of pravious year's ruthtee cropt.	Remarks by the Collector.	Remarks by the Director of Agriculture.
					RAJSHAHYB D	-KOISIVI	oncluded.		7
	Sudder	944	848	108	Wheat fulles Mustard Lineed Cheena Wheat Pulses Mustard	lt annas	9 nnnaa	The untimely rain in the latter	In the Nowgong sub-division the rainfall in November
RAI- shallys-	Nowgong	068	800	116*38	Linned Khrrachi Wheat Cheens Cinees Cinger Linned Mustard Turmeric	) 	P)	part of November damaged the crops, especially in the Nations sub-division.	was not receasive ("So moh). The deficient auturn in this wire where may be partly attributed to scarrely of randal to October and the first ball of November
	Dustrict Total	2,864	1,678	406.52	Potato		901114		1700
1	Rungpore	1,161	900	- 40 30 30	Potato Mustard Pul-ea Brinjal Uhilitea	14 annae 14 14 12 14	16 names 16 14 10		
Long pore (	Selphameri	106	100	30 10 16 90 25	Mustard Wheat Pulses Ginger Potito Pulses	]16	19	A large part of the area in	
	Gaibanda	700	8;0	350 130 36 65 10	Wheat	10	16	the Kururam nub-division, on which the rubbee crops were sown, was flooded, and hence the outturn is less than average.	į.
	District Total	3,040	2,680	907	Obina and kaun	16	16		
ingrib	Bogra	1,484	918	64 05 5 83 3 64 4	Mnsoor Khesari Linseed Mustard Whost Til Graus Bacley Mansalai Kherachi	14 annas 14 15 16 12 12 10 10	18 sams 13 ··· 13 ··· 13 ··· 13 ··· 14 ··· 15 ··· 16 ··· 16 ···	Unessonable rain in the mid- dle of November did harm to aome of the crops. More harm was done to the crop by hallstone over a limited area in the north of the district in the third week of January	
	District Total	1,452	913	80	Potato	16	16		
ubon	Sudder	890	087	100 166 37 27 48	Pulses Othereds Wheat Barrey Chounn	9 annas 13 8 10	S almas 8 . 7 7	The unseasonable rainfall in Newmber last diminused the outturn of the rubbed crops.	11
1	Bornjigunge	367	710	1864 644 36	Pulses	14	8		
	District Total	1,847	1,105	713	Sunn	11 ,,	16		
	The Turni	963	174	1 1 2	Mustard Union Pil Potato Pulses	}15 annas	4 aanas	Sufficiency of rainfull in the Term cannot better outturn this year.	
trivoling (	Kumong	380	28	038 194	Urid Potato		4 2	No rabbee crops were grown this year.	
	Kalimpong  Darjaeling  District Total	736	875	80.80 80.80	Wheat Barley Urid	}18	16 .,	Deficiency of rainfall affected the outsurn of rubbee ore pe this year.	
	Balkantpore pergumali. Bods pergum- ualis.	467 003:73	984 905	27 20 5 30 5	Rusland Wheat Pulsas Kaun Polato Mustard	8 4 41	12 annaa 8 25 6 25 18 25 18 26	The rain of the 20th and 26th January last damaged mus- tered and nulses, but im-	The extremely low yield of ther ubbee crops, especially wheat and barries in
lipato-	Patgram per- gunals.	86,99	78	• {	Wheat Pulma Fotato Mustard	S annas	6	tard and pulses, but im- proved the prospects of other rubbee crops.	wheat and barriey in Patgram, is not accounted for. The mantall in January was not at all excessive or insurant and outdoor reduce the yield of wheat and backey to Lamas. The Deputy Common soner's
	Mynagoree	748	320	3 30	Mustard Potato Pulsos	19	18 11	•	figures are claimly wrong.
-	Alipore Bholks District Total	917 132 2,631'60	80	10	Wheat	18	18		

1		3			•	7		•	10
Dayrager.	(Sab-Miristen.	Potal area of sub-division in square miles.	Total area estimated so be under oultivation in square miles.	Metinaball area under subbas opop in aquaro dilea.	Names of principal rubbes crops of sub- division.	Estimated outliers expressed in annau of current year's ruthes grops,	Mitimated outturn of previous year's rabbes dropt.	Remarks by the Collector.	Reinitein by the Divide of Agriculture.
					DAGGA DIV	iaion.			
	Sudden	1,:08	688	26 26 10 10 12 6 8	Mustard	10 annaa 9 9 10 10 10 11 10	13 annao 11 11 11 13 14 19 10	The exceptive rainfall in No- vember and January affected the growth of the rubbes- omps this year. In the pre- vious year the dedicent out- turn was due to insufficient rain in December and Jan- uary.	There was exensive rains in Novamber throughout the abstract,
100	Starningun ge	641	830	7 0 0 0 1 1	Kheenri	6 00 6 00 6 00 8 00 8 00 8 00 8 00 8 00	10	Late rain in January dismared this year's crops, and last year's crops suffered from want of rain.	In January the minist of this sub-division was access of the form (78 moh mentant the normal fall of '30 min's), but the door not account for the
	Munshigungs	401	200	50 50 10 10	Mustard Pulses Choons	10 m 11 10 m 11 12 m 12 13 m 13	10	The excessive rainfall is No- vember affected the growth of the current year's rubbes cope, and the deficiency of rain affected that of the last year's c. ps.	does not account for the very low estimate.
	Maniokgungo		804	10 20 10 20	Miphard Post Miskulai Kh-mari	8 00 1 1 00 00 3 00	10 on	Owing to the scuroity of tod- der cansed by the last flood, peas, kaisl and khesari were nown in more lands this year than in the hat year, with a view to supply fodder also. The heavy rains in the be- ginning of the winter season damaged peas and khowari. They also caused damage to a certain entons to munitard and mankalai Last year the putters of rubbee crops.	The country of close and he marin Manichgraphy appear to have been under an mated.
	District Total	1,797	1,540	201	001-00			agic matrix of rubbee crops, excepting mustard, were allected by deficiency of rain- fall.	
sread part.	Saddor	lièbo i	Total	15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Mpstaird. Prato Moong Katai Katai Missour Gram Barloy Misstard Rapa aced Lisseud Missour Fens Grain Moong Katai Katai Coris andorsid	C mit the	S silian	This year's rubbee crops auffered still more than those of the previous year owns. to (J) unusual rainfall in November lest, and (2) heavy floods which delayed the caltivation and sowing.  The short datturn is due to the unusual rainfall in November lest.	
į	Madaripoere	970	ogs.	10°3 10°3 10°3 45 45	Wheat	18	22 (5 18		
	District Total	9,987	1,578	200'5	subbee crops.	*****			
	Berrini	1,111	<b>as</b>	186	Khemei, un- anor, mustard, moong, meion, chillien, pena,	;	7 anna		180
ther-	Parosopere	tion	405	85	Reco dhen	16!	156 138	Late rain in November last damaged the rubbing rope to	
	Putuakhali Bhola	1,005 618	200 200	2 5 7 7	Moong an of Musour and Chillien Khemari Khamari Linnoud	}10 }10	{14 :: : : : : : : : : : : : : : : : : :	some extent in the district.	-70
	District Total	4,964	1,884 .	188				4	
	Südder Kishofeğunge	1,000	1,1dl 200	100 100 80 80	Mastard Kalai (sudees) Hiseriberesus Mustard Kalai (pulsus)	9 annaa 6 m.g 6 m.g 10 m.g	) 13 annas	Heavy rain after sowing and during barvest time affected the crops.	
orh.	Fetrokenn	.000	804	90 36 11	Fulare Juliare	14 15 13	16 18 13		
	femalper	1,966	,000	180 {	Messtard Paises	10 **	10 ::		
1	Pangall	1,001	700	98 {	Winterd Palars	18	15 ::		

.

1	1	8	•	5	6	7		, ,	20
STRICT.	Sub-division.	Total area of embedivision in equare miles.	Total area estimated to be under cultivation in square miles.	Estimated  area tinder rubbee erops in aquare miles.	Names of princi- pal rubbne crops of sub-division.	Estimated outlurn expressed in onnse of current year's ruthmo oroga,	Batimated outturn of previous year's rubbee grops,	Remarks by the Callector.	Remarks by the Director a
				CHIT	TAGONG DIVIS	ion.			
	Commilian or Sudder.	1,168	013	111 26 69 17 104 30 61 24 25	Mentard	10 annas 9 '' 13 '' 10 '' 8 '' 8 '' 9 '' 10 ''	11 annas 10 11 10 10 10 10 10	The outturn is short owing to oxometre rain at the time of cowing.	The
popula (	Brahmanberia Chandpore	769	410	116-60 { 18 10 25 10	Pulses Mustard Til Chillies Onions Garlio Turmerio Goriander seed Khamari Til Ohillies Moone	16 pe 16 pe 16 pe 17 pe 16 pe 16 pe 16 pe 16 pe 16 pe 17 pe 18 pe	16 20 16 10 16 16 17 18 10 11 11 11 11 11 11 11 11 11 11 11 11	Pulses and mustard were damaged by encessive rain at the time of stwing.	4
Von- saily.	District Total Sadder Fenny	2,403 1,405 348	1,475°08 2,000	687°00 B 46 100 8 8 9	Moong	12 aumas 11 10 8 8	10 mmaa 11 3 10 8	Untimely heavy rain affected the growth of the rubbee grops.	The canfull of Novemb was below the normal in the Fenny sub-division. To Collector's explanation the deficient vised of rubia crops in this sub-division not therefore confirmed the rainfull records.
hitta-	District Total Sudder	1,000	1,280	100 29 3 26 46 25 79 22 40 6 72 11 90 17 79 18 18 6 46 6 59 8 280	Chilles Kalsi Khesar Moong Mustard Funn Sweet pointe Gourds Melons Kardso	4 annes 16 18 20 16 11 12 12	6 mmas 6 m 6 m 6 m 12 m 7 m 10 m	The outturn is generally good owing to timely minial this year.	the fulliant recognic.
	Con's Bann  District Total	997 8,667	1,462189	36°68 18°0 6°6 6°6 289°61	Chillies Brinjal Ontons Muntard Kalai	] 12 .,	16		
ili rnote.	Sudder	3,863'5, of which 1,052'5 are re- nerved forests. 1,835'5, of which 862'3 are reserved forests.	hand, 94 phoughed land, 15'76 of jum land,	19'39 { 9'05 6'35 { 1'75	Cotten	6	a	The ection crop of this year was greatly affected by untimely rain. The heavy rain that full just after the greater portion of the unustand crop was sown, caused the good to rot, and in many places the crop had to be resown.	The outturn of til and mu tard seems to be unde estimated.
	District Total	8,419	74-70	22'38	67.533				
					PATNA DI	VISION.	1	4	
	Bankspore	417	487	22 27 20 20 33 20	Khomari	>16 amnas	19 aumas	4	Besides scarcity of rain a sowing time, there was main in the district darun December, January, an Pebruary. The want of rai in this period must have
DD 10.5				80 66 35 39 8	Khesari Harley Whrat Musoor Peas		12	This year a larger area was cultivated and sown with rubbee crops owing to the timely rain during the ploaghing and sowing time, and to the depent of sit by floods. But the outturn has been reduced for want of sufficient rain during times of the comp many	caused injury to the rubo
	Dinapura	148	118	9 89 13 7 7 18 3	Gram Barley Pres Wheat Wheat Cost Khears Busteed Linseed		18	during time of the crop maturing. Last year's outturn was affected by encessive raisfall in February 1899.  The outturn of this year's rubbee crop was affected partly by the deflorency of rainfall during the months of October and Decomber last,	
	Bohar	798	678	145 48 50 87 20 18 95 15	Arina Wheat Barley Gram Pena Musaor Arinar Khearr Liuseed Muntard		9 ,,	This year a larger area was under reables cultivation, and the outtorn would have been mare had there been unfigient rain during the sowing time. Last year's	
-	District Total	8,079	1,888	1,007		*****		crop was damaged by rain accompanied by ballstone that fell in February 1889.	

1	8		4	8	6	7	8		n
PRICT.	Sub-division.	fotal area of aula-division in aquare miles.	Total area estimated to be under outlivation in square miles.	Retimated area under rubbee orope in aquare miles.	Names of prin- cipal ranbes cope of sub-division.	Estimated outturn enpressed in annua of current year's ruthes erops.	Estimated outtern of previous year's rubbee crops.	Remarks by the Collector.	Remarks by the Director of
					PATNA DIVIS	ION—conclu	ulod.		77
	Monuferpore	1,218	900	150 180 70 180 80	Bariey	16 mmma	18 annas	Rainfall at the end of November and January last had been very benedicial to this season's crops.	of September tel the most observation tel the most observation tel the most
sfier-	Hajipore	771	560-6	35 30 10 20 0 10 10	Wheat	1	18	Absence of rain during hatter, i.e., that ber, did not allow the whole of the normal area to be sown under subbenthis year; and want of rain during the whole of rubben season affect-	from then till the 26th o
	Sitamarbi	1,614	770'64	50 80 40 50 100 40 60	Barley and peas Wheat Gram & mustard Arhar Khesari Linseed & musuri Others	14	10 .,	and want of rain during the whole of rubbee season affected the outliers.  Owing to heavy rains of the year and the floods which are so beneficial to the rubbee crops in general, the outliers was expected to be a bumper one, but the delicancy of the winter mine reduced to the another the form of the winter mine reduced to the another the form.	118
	District Total	8,003	8,260'94	1,181	12-111		*****	a bumper one, but the deli- clongy of the winter rains	
	Sudder .	201	950	25 25 25 15 10 11 10 10	Barley Wheat Grain Armar Pean Kheatri Muscour Linseed Onta	16 manas	iž annas	The weather was quite favourable from the besimmer. Had there been a little rain in December the outtarn would have been a bumper	From the rainfall records the weather does not appear to have been wheely favourable to rubbee crops. There was deficient cainfall at sowing
8	Sewati	063	468	8 218 70 20 28 10 23 7	Other crops  Barley Wheat Arbar Gram Musoor Poas Kheaari Oats	16	98 ,,	one. The increase in the estimated area under rubber was due to the fact that in many alaces where the rice and branch crops were destroyed by mundation, the land occupied by them was quickly ploughed azain on the waters receding and rubber crops were sown.	time, the entire months of Cotober, and the first ha of November having bear ainless. Again the threfollowing months of December, January, and Pebruar were perfectly rainless.  16-anna harvest beam therefore to be an over estimate.
	Gepnigunge	771	800.30	60 70 16 18 10 11 16	Wheat Harley Peas Gram Musone Khesari Arlam Mustard Turi Potatoes	Ju	18	THOUSE STOPP WILL SOME	
,	District Total	2,622	2,129'50	901					
	Sudder	1,518	1,081	186 {	Wheat Barley	) to suitas	bnas	as compared with last year is	
npa-				100 {	Lineeed and other oilsoeds. Oat, gram, peas, museor, kheasri, arhar	)	7	being left in the soil by the rain of the middle of Novem- ber lest. The rain of the Sird and rath January 1980 also materially improved the pro- spects of the crops.	
	Bettinio	2,013	1,500	200 78 925 80	Wheat Lineed Mustard Harley	16 16 18	}12		
	District Total	\$,581	1,221	101	461 102	*****			
					BRAGULPO	RE DIVISIO	ON.		
	Budder	1,659	1,001	463 {	Wheat Barley Cran Posu Khesari	12 annas	12 to 14	The rubbee crops, especially	In the Sudder anti-division,
thyr	Regusera:	740	577	61	Mustard Lincood Arhar Wheat Barter		annas.	on high lands, were affected to a consulerable extent by want of rate in Decomber and January, and hence the diminished outturn.	there was no rain in Germber, November, Pasember or January, and the greater part of February. In the January and Responers authorizing, there was some
				480	Ariar Missor Missari Missard Linwood Chilles	13 to 18 annal.	In to 14 anisms.	The entire absence of rain in December and January reduced the outturn.	rain in Getober and November, but none during the reason. The untturn ecoms to be over-estimated.
-	Jamui	1,009	1,003	350	Wheat	16 annes.	13 annas.	•	
					Grain				

			1 4 200			1			
1	1	3	•	8	•	7	8	•	10
Pistalot.	Sub-division.	Total area of sub-division in aquare miles.	Total area estimated to be under puttivation in square miles.	Estimated area under rubbse crops in ageare miles	Names of princi- pal rubbee crops of aub-division.	Estimated outturn expressed in annes of current year's rub- bee crope.	Ratimated outlern of previous year's rub- bee crops.	Romarks by the Collector.	Remarks by the Director of Agriculture.
					DACOA DIVISI	ON—conclus	fed.		
Custork	Kendraparah	1,454	801	276 161 175 36 178	Biri	annas	14 atmas	Untimely heavy rain, attended by high winds, just when some of the crops were flower- ing and others germanatog, damaged this year's rubber grops,	
	Jajpore	1,106	500	17 6 30 8	Biri Moong Kutthi Arhas Moong Arhas Kutthi Gram Cantor-seeds Mustard Rad	8 8 8 6 16 6 to 8 6 to 8 10 to 12	20 00 10 10 12 00 10 12 00 10 10 10 10 10 10 10 10 10 10 10 10	The excessive reinfall to last November diminished the outturn of reibbecorers. The good barvest of the pressure year was due to the depart of eith after the floods of August 1838 and to the reinfall of November 1838.	
	District Total	3,673	1,894	23:'76			-1/044		7
lalassry (	Halasore	1,150	670	21	Meong Birt Aribur Mustaril Other sorts of	111 ngme	12 annae	Owing to the constant and heavy rain in the setter part of November last the onto of the subber crops tell short this year,	,
	Bhuddruck	306	7:0	11083 {	Arhar in the property of the p	18	16 00		
haroo . {	District Total	2,006 1,500	1,590 729 380	16 923 1N 75 10:5 2 1:75 7 8 8 1	Moong Kutai Bari (Aram Moong Kutai Bari (Aram Moonard Arbar Peshi Buen.ri (Chema Raat	6 motes 7 :: 5 :: 6 :: 6 :: 7 :: 8 :: 8 :: 8 ::	Sanuar G er G er N er S er S er S er	Arhar, gram and her suffered from time excessive rain of November last, which also fitterfared with the sawings of the other ruibbee copps.	rain was serarated by U
	Khorda	2,530 702	474 × 000	68 67 {	Moong Kulthi Firit Arhar Orman Buoguri Castor Mustard	10 :: 13 :: 0 :: 0 :: 0 :: 0 :: 0 :: 0 :	8 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Again there was went of rain after the sowing was over. These all combined diminished the outcors.	
					CROTA NA	1			The state of
Ararj.	Head-quarters	4,675	2,3957	879	Whoat Barley Grati Arbur Mostard Til Kineari Burguja Jeas Musoor	) 15 anna	6 жипаа	Unlike the last year, the rain- lail the year was favour-ble from the soving time tail the plants attained the state of usturity, when rain held off altereber. This ac- counts for the increase in	The rainfall was the cought favourable up to the there week of November, and then no rain fall during the remainder of the season Uniter the chromatance a 15-anna crop cannot be
bagh.	Giridib	2,446	1,280	268	Wheat Barley Grau Linsood Mustard Thi Surguja Achar Khesazi	154 ,.	71 ss	the estimated outsurn as compared with that of the last year.	looked for. In Lahardupre where the rainfall was Gartinated in the same way win Hazariuagh, the cross are estimated at 8 across only.
	District Total	7,021	3,978	636					
0.000	Hend-quarters	7,906	1,678		Gram Sorgu a. Beeley Mustard Til Wheat	11 arrina. 13 10 10	9 6 10	the beaming of January, the outturn of rubbes on is would have been better. As there was a good fall of rain at the beguning of sow-	The extremely low yield of srhar in Pulsanaw is not intelligable. This erep 200,20 not have been much, assured by drought in Decouber and January.
ding-	Palamow	6,241	2,180		Musorr Khosar Arlar Knithi Bodi Gram Whomat Paristy Annar	80 m m m m m m m m m m m m m m m m m m m	7 11 11 11 11 11 11 11 11 11 11 11 11 11	ing sosson, i.e., in September and October last, the area cown this year with: be- crops was larger than shat of the prayious year,	111
	This control of				Museul	10 ,			
	District Total	10,018	3,803	830	******		231101		

" This excludes area under rubbes crops in Angul.

168,381-719

87.043\*00

STATEMENT IV.—Showing estimated outturn of important special crops, such as Jule, Tobacco, Ganja, Sugarcane Opium, Mulberry.

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1	¥	8	•	8	0	7	8	9 ,	10
TRICT. Su	ıb-division.	Total area of sub- division in agents miles.	Total area es- timated to be under culti- vation in equare miles.	Name of special grop.	Retimated area under apsend comp in square untles.	Estimated outturn in anna of current year's cup,	Ourturn in attine of preced- ing year's orop.	Remarks by the Collector.	Romarks by the Director of Agriculture.
				1	BURDWAN	DIVISION.			
was Sed	dder	3,948	908	Sucurouse	17.8	30	10	Want of rain at the planting	1
	lm,	480	800	Tohneso Jute httparcane Indiro	10 3 5	}	•	time affected the outturn of	
Cul	lwa	205	966	Busarcane Turmerie Jute and sunn Tobarco	1'5 1 '98 '25	10 9 10 12	26 28 26 26		
Raz	neegunge	671	300	Sugarcano	2 00	18	iii		
Die	strict Total	2,697	2,006	450-41344	57*79		127121		
koora Sud	ider	1,983	670	Bugarenne Jute and sunn Tobacco	1 "378 "5H	11 0 16 18	11 10 18 12		
: Min	dempore	700	346	Mulberry Bugarouse	8	16	12	In Bishenpore sub-division the	
Die	strict Total	2,021	1,000	**********		900.000		this year than last year.	
	ree (Sudder) mpore Heat	1,100	22	Sugarcano Susarcano Musberry Jute	31 18 12	16 16 13	14 10 10		
Die	strict Total	1,786	1,1656	Jule	63				
	lder	8,586	1,707	Mulherry	)				
				Jute	147'8	31	28	These crops suffered from untimely beavy ramiall.	There was untimely ber
Com	rtni	863	710	Juin	3	11	19		this could not affect jute; mulberry and augureane
(Ch	ettel	860	200	Mulberry Pincapple			20 7		helds were flooded.
	mlook	-	465	Mulberry	10	10	32 }	Insufficient rain at the time of plantine did much damage to	
			,	Mulberry Jute Tobacco	201065	16	14	ther crops.	
Die	strict Total	6,119	8,179	417440000	2071362	*****			
oglity Pud	dder	646	274'28	Bugarenno Tobaçeo	8 "25	11	} 36	There was no rainfall at the	
Sen	numpero	366	***	Bugaroane Jule Tubacco	16195 35150 1136	) 10 to 12	10 to 12	time of sowing, and hence the deficient outturn. Successive and jule suffered from arcasent at ploughing time and from to hanch	
Joh	hansbud	400	303	Sugarcane	38	16	3	Sugarous was destroyed by	1
Bo	wrah	278	9415	Jule	16	10	19	hood in the previous year.	
0-1	looberiah .	303	200	Sugarcano	10				
Cus				Tobacco Eulberry	1	16			
Die	strict Total	1,609	1,085'78	********	124.78	*****	****		
•				\$*1	RBSIPBNCT	DIVISION	τ.		
aba. no pe bu	dder and malgamated art of su- urbs includ- in late Har-	1,070	717	Jute Tolucco Bugurvane	5'80 31 6	10 12	19		
. I di	pere sub- ivision. amond Har-	818	463	Jule	*675	18	16		*
br	Our,	391	963	Tobacco	38	16	16		
				Tobacco	3 6	10	12		
Be	mirbut	530	430	Tubacco SS Bugarcane		3	14		
Be	wrackpore	43	13	Jute ::	3 '03	<b>1</b>	19		
De	um-Dum	86	81	Sugarenno		} 18	18		
Di	istrict Total	8,603	1,098	201	131.400				
Ha Ar ar ri 8	tkhira tkhira tkhira ta of bound- ry khala and tvora of the u n derbana	1	856 44D 530	Jute	35 8 84 13:35	10	19		
			1,889		20.29	117-00			
in	un derbana this district.	1		oludes Sunderban	!	1			

	2	3	•	5	6	7		•	10
District	Sub-division.	of mub-	under endi-	Name of appoint	Estimated ares under openial crop in oquare intes.	Kaimated outcurn in anna . f cuerent year's, crop.	Outtuen in annae of presed- i green's erop.	Remarks by the Collector.	Romarks by the Direct of Agriculture.
				PRESIDEN	cy divisio	N-conclud	ed.		
Nuddes	Budder	701	694	Jule	7 190	5 :	5	Floods damaged jute and	If jute and meanman ;
	Chuadanga	437	879	Businers	2	16	19	Mant of miniall in time affect-	extent of it anna,
	Kusten	885	418	Jule	3 25	1 1	8	ed the outturn.	paddy as well. But the return on winter padd was not so reported.
				Turnette Turnette	104	10	. 19	Florida damaged fute and	the total toposter.
	Maherpore	637	506	Jule	56	7 7	- 10 - 10 10	A good don't of damage was done to the order by the heavy rainful in last hovem-	
				Multerry Turmerio		10	16 14	ber.	
	Ranaghui	427	204	Jute Sugarrane	45	8	7 to 5 . 8 . 19		1 1 3
¥	District Total	2,730	1,930	Tuhaceo	361	1 8	13	-	1
Jessoro	Sudder	800	673	Jute	9	201112	16	1	
	Bengong	610	280	Tuberro Sugarrates July	11 8 13	16 16	16 14 18		÷
	Narail	487	265"8	Tubsero Surarcano Juto	25 12 23	16 9 12	16 8 17	The decrease in the outturn	1-
						1		in due to the midden rise of hazd water, which drowned	
	Magoorali	4:5	201	Jute	6 25		10	The cultivation of sugar-and in this subdivision is very	
	Jhendah	475	317	Jute	16	10 10	9 16 16	magnificant.	
	District Total	2,985	1,5103	**********	131*25				
Mwreheda- bad.	Sudder	707	376	Mulbeery	36	16			
			:	Tebasco	2 16	18	10	Plonds did damage to accretion extent to juite and summers.	
	Lalbag	\$71	223	Jule	972 3733 36712	1 10	12		
		1		Mulberry Uther crops	14:00 7:48	J	1		
	Jungip to .	\$05	444	Tabacco Jaro Sagarrano	21	16	16		
	Kanda .	512	440	inamo Mulberry Sugarrane	1				
	Dustrict Total	2,159	1,683	Mulberry	16:10	14	10		
	I Transfers From	Mr. v. co. o.	2,0000	**********					
		-			. =====================================				
				ı	AJSHAHY	E DIVISIO?	۷.		
Omage Jore	Sudder .	8,251	1,930	Jute co	+	f 6	14	Deflewing of minfall in propor time affected the outsire of	F
) trape   ore		8.251	1,930	Jute	AJSHANY	6	16	Deflerency of runfall in propos time affected the curture of jule, tobscov and supercane.	
Inapopore	Sed-ter Thakurpson			Jute Tolkness	+	6 9	16 9	time affected the outturn of	
haspejore				Jute Tulmeco Sugarcans Ganja Jute Tolmeno	157	6 6	16 9 1n 8	time affected the outsirp of jute, believe and sugarcane. The diminished outturn is due	
,	Thakurpeen	867	630	Jute	167	6 6	14 9 1n 3	time affected the outsirp of jute, believe and sugarcane. The diminished outturn is due	
,	Thekurpeen	4,119	2,600	Jule Tulmoro Sugarcano Georgia Jule Tolineno Sugarcano Jule Indiano Sugarcano Jule Indiano Sugarcano Sugar	167	6 9 9 127 113 6 6 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	16 9 1n 8 16 16 16 16 16 16 16 16 16 16 16 16 16	time affected the outsirp of jute, believe and sugarcane. The diminished outturn is due	
,	Thakurpeen	4,119	2,600	Jule	167	6 9 9 127 100 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	16 0 3n 3 16	time affected the outsirp of jute, believe and sugarcane. The diminished outturn is due	
,	Thakurgaon  District Total  Sudder	6,118	2,600 2,600	Jute Telinoco Suparcane Georgia Jute Tolmoco Sugarcane  Jute Tolmoco Sugarcane  Jute Tolmoco Purares he Mulberry Jute Tunscoo	167	6 9 9 12 13 13 13 13 13 13 13 13 13 13 13 13 13	16 9 1n 3 16 16 16 16 16 16 16 16 16 16 16 16 16	time affected the outsirp of jute, believe and sugarcane. The diminished outturn is due	
Dinagopore Lajahaliya	Thakurgaen  District Total  Sudder  Nattore	6,118 944 917	2,600 2,600 885	Jule Tubacco Sugarcane Ganja Jule Tolmoo Sugarcane Jule Tolmoo Sugarcane Mulberry Jule Tumsco Tumsco Tumsco Tumsco	167	6 9 9 127 127 127 127 127 127 127 127 127 127	16 9 17 16 16 17 18 18 18	time affected the outsirp of jute, tobacco and sugarcane.  The diminished outturn is due	
,	Thakurgaen  District Total  Sudder  Nattore	6,118 944 917	2,600 2,600 885	Jute Tubacco Sugarcano Georgia Jute Tolanco Sugarcano Mulberry Jute Tubacco Mulberry Jute Tubacco Cangla Tobacco Georgia Georg	167	6 9 12 13 13 13 10 10 10 10 10 10 10 10 10 10 10 10 10	16 9 1n 8 8 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	time affected the outsirp of jute, tobacco and sugarcane.  The diminished outturn is due	
,	Thakurpen  District Total  Sadder  Nattore  Newpong	6,118 944 917 999	2,500 2,500 885 891 500	Jute Tubacco Sugarcano Ganja Jute Tohmoo Sugarcano Jute Tobacco Canja Sugarcano	167 289 469 1 30 248 123	6 9 9 12 10 10 10 10 10 10 10 10 10 10 10 10 10	16 9 17 18 16 18 18 18 18 18 18 18 18 18 18 18 18 18	time affected the outsirp of jute, tobacco and sugarcane.  The diminished outturn is due	
lajahaliyu	Thakurpen  District Total Sudder Nattore Newgong District Total	6,110 944 017 000	2,600 2,600 885 891 590	Jule Tubacco Suparcane Ganja Jute Tolmoco Suparcane  Jute Tolmoco Suparcane Mulberry Jute Tumscco Suparcane Jute Tumscco Jute Jute Jute Jute Jute Jute Jute Jute	1 167 293 460 1 00 248 123 60 90 15	6 9 9 12 mg 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	16 9 17 18 16 18 18 18 18 18 18 18 18 18 18 18 18 18	time affected the outsirp of jute, tobacco and sugarcane.  The diminished outturn is due	
ajahahipu	Thakurpen  District Total Sudder Nattore Newgong District Total	6,110 944 017 000	2,600 2,600 885 891 590	Jute Tuberco Supercano Supercano Supercano Supercano Supercano Supercano Mulberry Juto Supercano	1 167 200 460 1 00 1 00 248 100 100 100 100 100 100 100 10	6 9 12 13 15 10 15 15 16 15 15 16 15 15 16 15 15 16 15 15 16 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	16 9 18 8 14 16 11 10 10 12 15 15 16 15 16 15 16 15 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	time affected the outsirp of jute, tobacco and sugarcane.  The diminished outturn is due	
lajahalipu	Thakurpson  District Total  Sodder  Nuttore  Newgong  District Total  Rungpore	6,118 966 817 890 2,265	2,600 2,600 885 891 590 1,476	Jute Telinoco Suparcane Ganja Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane  Mulberry Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane  Jute Tolinoco Sugarcane Jute Tolinoco Sugarcane Jute Jute Tolinoco Sugarcane Jute Jute Jute Jute Jute Jute Jute Jut	1 167 200 460 1 00 1 00 248 100 100 128 80 100 128 80 100 128 80 100 128 80 100 128 80 100 128 80 80 80 80 80 80 80 80 80 8	6 9 9 12 min 6 6 8 8 13 128 10 114 115 116 115 116 116 116 116 116 116 116	16 9 1n 8 1 16 1 10 10 12 12 11 14 14 14 14 14 14 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	time affected the cursure of jute, tobacco and sugarcane.  The diminished outturn is due to want of timely rain.	
lajahalipu	Thakurpaen  District Total  Sodder  Nattore  Newgong  District Total  Rungpore  Nulphamari	6,118 966 017 003 2,203	\$45 845 881 500 3,476	Jute Tubacco Suparcans Gnoja Jute Tobacco Suparcans Mulberry Jute Tobacco Suparcans Mulberry Jute Tobacco Canja Suparcans Jute Tobacco Suparcans Jute Tobacco Suparcans Jute Tobacco Jute Jute Tobacco Jute Jute Jute Tobacco Jute Jute Jute Jute Tobacco Jute Jute Jute Jute Jute Jute Jute Jute	1 167 289 469 1 20 469 1 20 248 100 15 100 17 17	6 9 12 13 15 10 15 15 16 15 15 16 15 15 16 15 15 16 15 15 16 16 15 16 16 16 16 16 16 16 16 16 16 16 16 16	16 0 10 10 10 12 12 12 0	time affected the outsire of jute, bebrecovered sugarcane.  The diminished outturn is due to want of time'; rain,	

						7		•	
<sub>iergi</sub> er.	Bub-division.	Total area of sub- division in aguare miles.	Total area estimated to be under outli- vation in aquare galles,	Name of epocial orop.	Butimated area under apactal crop in aquare miles,		Outturn in annua of preced- ing year's crop.	Remarks by the Collector.	Remarks by the Director of Agriculture.
				RAJSHAE	IAB DIAIS	ION — conclu	ded.		
engl	Bogra	1,400	918	Jute Tobacco Mulherry Ganja Sugar cane	100 7 7 8 17	16 12 30 16	8 R 12 15		
	District Total	1,488	918	********	140		*****		
<b>3 (1886</b> ) es-	Sudder	890	607	Tobseco	18 319	32 8	12 13	The heavy and increment rains in November last prevented the usual cultivation of sobsector, which is grown to a small entered in lands adjoining to	MU
	derajgunge	907	710	Tobacco	16	10	8	The augareaue also suffered	
	District Total	1,847	1,206	00110111	148	*****		ing years, and yielded but little produce: come lands were eithed up with sand and became unfit for the supar- cane cultivation.	
prjosling	Sillipores	263	176	Jute Tobacco Sugarcase	16	} 18	8	There was sufficient rain for the rubbes crops.	
	Inder includ- ing Kalam- pong.	796	00	Jute Tubecco	}	100000	8	22	,
	Eurseong District Total	186	18 275°	Sugarcane	32	000,000	*****	No rubbes crops grew here this year.	
вірідотоо	Beikantepree pergunnah.	447	294	Jute Telucco Bugarcano	98 35 27	18	8	Tobacco suffered from half- storm, and anguenne from want of sufficient rain,	all over the Munagement
	Boda	602.73	204	Jute Tubacco Sugarcans Gragar	40 30 15	10 10 11 7	10		ail. The extremely i yields of tobacco and can cane are not intelligible.
	Patgram	80188	76	Jute Tobacco Sogarcano	} 10	{ 1}	8 14 6		
	Мухаричн	ess	900	Juta Tobacco	10.7	19	15		
	Pailacotta Al-poro Bholka	748 817 132	900 910 80	Tobacco	30 17	14 16	16		
	District Total	2,851:00	1,461	********	819-5	1042×4	0+0700		
		_		D	ACCA DIVE	BION.			
CCS 00-	Budder	1,900	638	Jute Tobacco Mi	125 10 80	14 10 38	16 10 11	Supervane was damaged by unusual rise of water.	
	Naraingunge	061	300	Tubacco	20 20 40	13 8 10	16		
	Munshigunge	601.	200	Sugaronno	10	12	12 13	Want of rain at the time of	
	Munickgunge District Total	489	1,549	Jute	347	10	118	sowing affected the outturn.	
Irrandpore		3,797	403	Julo	70	40000			
	Medaripore	079	653	Sugaronno	*95 *75 10	18	13		
	Goalundo	465	891	Sugaroune	150 61	111	18 15 8 5		
	District Total	2,1164	1,676	Sugarcane	183		*****		
nekor- gungo,	Baricol	1,211	600	Rugaronno Juite and	} ••	18	18		
	Perosepur Patuakhali Bhola	1,620† 618	908 281 300	Supercano Supercano Supercano Julo	1275	16 16 16	19 16 16		
	District Total	4,044	1,834		84-28	30+000			
mm.	Andder Kishoregungo Netrokena	1,840 744 1,369	1,041 380 694	Jute Do, Do,	975 95 95	100000 604 00 200000	200000 000000 00000	Tobacco and summens are cultivated for home consumption only.	
	Jamalpore	1,844	R30 780	Do	400 905	01 110	-21000		

# SUPPLEMENT TO THE CALOUTTA GAZETTE, MAY 7, 1890

1	8	3	4		4	7	- 8	•	10
Durace	Sub-division	Total area of sub- division in aquare miles.	Total area estimated to be under cultivation in aquare miles.			ier outturn it n name of n current o year's	le manne	Bemarks by the Collector.	Remarks by the Dir of Agriculture.
	1			(	HITTAGO	IG DIAISION			
Tipperah.,	Oomilish of Budder.  Brahmanberiah.  Chandpore	700	913 863°66 610	Tobacco	200 71 10 394 394	15 10 13 13 13	18 12 16 12 10		
	District Total	3,401	1,875'68	Betelnut	76	. 18	13		
Kaskbolly	Sudder	1,693	1,000	Burgrane	111 10 25	18 13 6	*** *** ******* ******		- 17
	District Total	1,641	1,290	*** ********	50		V + 1 + 4 +		
Thittagong	Budder	1,630	81.5		1314		8 6		
4	Cox's Basar	867	647-68	Married married and	27.7 48.0		10		
	District Total	2,587	1,463.68	*********	10913	7			
hittanong H i I i Tracta	Sudder	2,885°8 of which 1,052°5 are reserved forests.	jum land 9 50 ploughed.		] "	10	18	The very heavy rain that full in Neveruber last caused a large number of young cases to fall and this materially affected the outturn of	
	Sungoo	1,RSS'S of which 382'3 are reserved forests,	jum laud ploughed.	Tobacce .	PD1. A-660	10	8	PRESERVATOR.	
	District Total	6,419	76'70		78		700700		
				PA	THA DIVIS	non.			
	Budder	617	057 005	Poppy Sugarosus Jule		36	{ 10 25	_	
	Buth	145	118	Tobacco bugarcane Peppy	3105	18 8	8 4		- 4
	Boltar	700	573	Surarcomo Poppy Sucurentes Tobarro Poppy Jase Criton	18	18	{ 15 18 2 9		
	District Total	2,079	1,555		80 82		A++++)		
1	odder	1,650	2,436 747	Poppy Nucritade Opoum Ruggroune	147'20 11: 33 15	18 26 } 80	30 38 6	Westerly wind which blew for five or six days excess some injury to the poppy crop.	
	ebusabad	1,000	808	Poppy	70	28 16 16	16		
	Date Total	6,712	3,440	Sugarcano	32/15	16	10		
	rrah	915		Sugarmae Poppy	19 12 7'8	8 12 10	30 10 13	Failure of Christmas rain and insects in some places are said to have affected the	
	NUMBER OF	1,463	800	Poppy	2	11	16 19	puppy.	
B1	habuah	1,501	976	Poppy Numbershoe Poppy	10 10 23 36	12 12 18	8 8 12 10		
D	Pistrict Total	4,365	8,126		1881		*****		
	idder ,	1,829		robacco	} 99715 30	{ 18 10 10	16	The sowings were performed inder very favourable circumstance, but owing to want of rain afterwards the	
	adhubani	4,000				1 20	16		
36	adimbani	764	640	Poppy Princes Pappy Lagranase	90 00 3 00 12 13	} 16   12   13   13   13	19 19 13	reduced.	

1	2		4	8	6	7	8		10
permor.	Sub-division.	Total area of sub-divi- sion in againment miles.		Name of special crop.	ngen under	Betimated outturn in anna of current yoar's grop,	Outturn in munas of preceding year's crop.	Remarks by the Collector.	Bouncks by the Director of Agriculture,
				PAS	MA DIVISI	OH-conclus	iod.	,	

Mazuffar- pore.	Mosafferpore	1,216	960	Tobacco .	90	36	13		
	Hajipure	771	29916	Tobacco Sugarcano	96 13	10 12 11	19		
	Sitamerhee	1,014	770'04	Jule Tuberco Supercano	26 10 20 20	} 18	30	The deflerency of the winter rains did some damage to there crops; otherw a the	This remark can not apply to jute, which is not grown to any extent in these dis-
	District Total	3,005	2,910'24	8444 744	214	20000	000141	outturn would have been an average one.	tricts.
Bertin	Sudder	906	880	Sugarcano .	1 16 12 20	26			
	Sowan	888	603	Nugarcano .	19	10	3 .	Owing to executive camfall the	
	Gopalgungo	771	306'50	Tobacco .	80	1	1	ed.	
,				Poppy Turmeric	23°80	) "	13		
	District Total	1,022	2120/80	(8110	153:50	***			
Спинрагия	Budder	1,618	1,023		60	16	11	1	
	Bettinh	9,013	1,500	W.	. 34	12 15 16	11 10 11 13		
	Dustriet Total	3,531	1,223	0.07.449	126	******		1	

### BHAGULPORE DIVISION.

Monghyr	Beguerral	1,010	1,001 677	Sugarcane Poppy Tobacco	981	1 3 7	16 16 14	16 14 10 to 12		
	Jamui	1,198	1,003	Видигевно Уществие Рорру	201	7 25	18 14 16	12 to 14 16 16		
	District Total	3,921	2,730	00 0111		46	*****	CH0 101		
Bhagulpore	Sudder	996	656	Jute Jubaceo Sugarcano Popny Indigo	600 600 801 401	0 0 000.000	10	16	There was total absence of rain during the rubbee sussen, and bence the short outturn.	The spring sown indice must have been affected by drought in March, Apriand the greater portion and the greater portion was max. The sugarcane was
	Banka	1,165	903	Bug -reade	001	******	18	16		also injured to some exten
	Madohpurah	872	548	Indiao Sugareano Indiao	000 005	90° 45 ·	16	8	Jute, tobacco, and sugarcane are grown here in very small	in thu way.
	Supoul	3,278	986	Sugareano Indigo	340	*******	19	12	quantities. This year's crops suffered from total cosmition of rain during the growth of these plants.	
	District Total	4,366	8,041		_	*****		480.414	1	
Purnosis	Sudder	2,672	1,029	Jute Tonacco Surai-mae	41.	180	16 17 12	10 18 12		
	Arramsh	1,066	700	Tonacco Juto bugarcabo	201	50 13 1	10 11	14 16 12	The outturn of tobacco is poor owing to want of rain in Aughan and Foush (Decem- ber and January) last, and the young pints of jute were	
	Kishongungo	1,840	1,006	Jute Tobacco Sugarrano	\$41 \$10	110 00 20	16 18 15	14 18 16	also damaged by the floods of July and August last. Bugarcane suffered from exces- sive rain in July and Septem-	
	District Total	4,986	8,634			426	*****	940	ber last.	
Naldah	Whele dustrict	1,902	1,200	Jule Mulberry Indiao Tobacco Sugarcane	004 004 11-	63 100 100 100 10 5	16 16 16 16	32 36 36 33	The scope suffered as in the preceding year from want of timely rainfail.	
	District Total	1,901	1,265	4000000	- 1	290				
Bonthal Persun- aniu,	Dumka Sudder Deuthur Godda	3,429 906 900	748 237 676	Sugarcano Sugarcano Sugarcano	***	10 5 8 35 25	8 10 11	10 19 16	Want of rain during the cold weather reduced the outturn.	
	Rajmehal	760	885	Tobacco Jute Tobacco Suguroans	 	94	19	8		٠
	Jamtara Pakour	694 683	196 911	Sugarcane		10'9	10	12		
	District Total	8,4/6	8,969	444597111		50178	-09148	B		

1	1			3		7		•	10
Diogracia	Sub-division.	Total area of sub-divi- sion in equare mises.	Total area estimated to be under cultivation in miles.	Name of special crop.	Hatimated area undo: apecial crop in square miles.		Outturn in annas of preceding year's crup.	Romarks by the Collector.	Romarhs by the Direct of Agriculture.
					ORISSA DI	NOISIV.			
Cuttack	Sudder	900	888	Tobacco	7 200		1	The diminished outturn is due to excessive rainfall in No-	
	Banki	116	00	Sugarcano		E 13		vember inst.	
	Ecodrapara	1,466	862	Jute Tobacco	8°20 1'6	16	10	Egoes of rainfull at the time	
	Jajpore	1,104	800	Burarcane	876 3	16 13	18	of sowing and ploughing caused the short outside this year.	
	District Total	8,639	1,894	Sugarcane	4323	001100	110.000	,	
halanero ,	Balacore	1,188	676	Jute	473	,		The same affects a finish	110
	Bhuddruck	008	730	Sugarcane	6:26	3 30	16	The crops soffered a little from want of rain is proper time.	- 1.7
				Tobacco	} 1'996	18	12		
	District Total	3,466	1,300		10'905	001000	60-174		
boree	Sudder	1,680	750'500	Juta	5	21	10		
				Surarrame	30	8			4
	Ehourin	900-505	634'900	Cotton Sugaronno Julo	2:50 2:40	} 10	12		
	District Total	1,030-206	1,134'900		87180	*****			
		-		CHO	PA MAGPO	RE DIVERIC	N.		
ame (back	Head-quarters	4,878	3,600	Sugarcane		1			
				Jule Tulness	165	35			
	Gindib	3,005	1,990	Р-рру					
				Posspy Tobacco	67	36	200		
	District Total	7,egt	3,673	5 × 40	\$33		MACHA .		
hardege	Head-quarters	7,804	3,673	Tobacco		3 to 0	1		
1	Palemow	4381	2,130	Poppy	300 230	} •	•		
	District Total	12,043	2,903	APRICA	840				
abbotts	Govindpore	208	200	Jute	3 3	16 16	12 18		
1	ladder	3,344	1,998	Sucarvane Sucarvane	16	111	10		
				Raind	16	73	19		
	District Total	0,107	1,403	Truncon	80		10		
gbheom I	Colban per	1,000	973	Taba see	3				
	gunnah.			Tueser Beaureane	1	18	20		
2	urshot	800		Tul 1000	1 }	36	2		
	thaibheom	1,147	893	Rumirenno Tribacco	: 13	16			
E				Jute	1 :)			1	
	District Total	3,783	1,793		20				- 1

No. 109Mne., dated Calcutta, the 2nd May 1890.

The following report of the 12th quarterly inspection of the Dock Works at Kidderpore, which are being carried out by the Commissioners for making Improvements in the Port of Calcutta, is published for general information.

By order of the Lieutenant-Governor of Bengal,

W. B. BESTIC,

Under-Secy. to the Govt. of Bengal, P. W. Dept.

### QUARTERLY INSPECTION OF THE KIDDERPORE DOCK WORKS.

No. 2722, dated Calcutta, the 25th April 1890.

From-W. Connan, Esq., and W. H. King, Esq.,
To-The Secretary to the Government of Bengal, Public Works Department.

In accordance with the orders of the Government of Bengal, memorandum No. 1042 (Marine) of the 22nd instant, we have the honour to report that the 12th quarterly inspection of the Kidderpore Dock Works was made on the

2. The usual tabular statement and the index plan showing the work done during the quarter ending 31st March 1890, and the total amount executed from the commencement, which have been prepared by the Superintending Engineer of the Dock Works, are already with Government.

3. The progress during the quarter is under noted.

#### PERMANENT WORKS.

Sixty-feet Lock .- This work is practically completed, hanging the riverside gates only remaining to be done.

Eighty-feet Entrance. The gates are being erected, the work being other-

wise almost finished.

Double Entrance to Dock No. 1 .- This work is nearly completed, the gates being nearly all hung. Arrangements are being made for erecting the swing

Tidal Basin.—The unfinished portion of the north-east corner has been founded, and the short gap at the south-west corner will soon be taken in hand.

Graving Dock.—One and-a-half lakh cubic feet of brickwork was done

during the quarter, and the work is, say, 7ths completed.

Government Graving Dook.—Very good progress has been made with this Dock during the quarter, half the area being founded, and 44 per cent. of the masonry done.

Dock No. 1.—The masonry of the Dock is nearly completed, 3 per cent. only remaining to be done. Over 361 lakhs of excavation were taken out

during the quarter

Boat Canal.-Lift lock finished with the exception of the erection of gates and building revetments. Diamond Harbour Road bridge finished with the exception of the approaches. Tollygunge Circular Road bridge finished except the approaches and erection of main girders, the staging for which is ready and fitting begun. The siphon culvert under the canal is nearly done. The lock at Chetla is in progress, the excavation for the foundations being nearly completed. The supply sluice at Chetla has its platform built.

Subsidiary work.—The chimney shaft and accumulator tower of the

Hydraulic Engine-house are approaching completion. The foundation for the Graving Dock Engine-house will shortly be begun, and the erection of the main Pumping Station machinery has commenced. The foundations of one cargo-

shed have been got in.

Expenditure.—The total expenditure up to the end of the quarter under review is reported as Rs. 1,71,00,838-10-11, the expenditure on works being Rs. 1,45,22,906-7-10, and on land Rs. 25,77,932-3-1.

Sanitary .- The daily average number of workpeople employed during the quarter was 5,189, amongst whom there were 36 deaths, the death-rate being 17.96 per 1,000 per annum.

#### GENERAL REMARKS.

We are of opinion that good progress has been made with the works, and, so far as we have been able to judge from a quarterly inspection, the work done during the quarter is sound and substantial.

# Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 3rd May 1890.

	No.	District and		Rainfall at Sudder Stationin inches.	
82	NGA	L.			
		Western D	istricts.		
١	i	Burdwas Cutwa	May 8, '90	0·02 0·01	Weather—very hot; sometimes cloudy and windy. Planshing going on in some parts of the district. Hain very much wanted. Prospects of sugarcans and ful not good. Prices of summon rice:—
					Sudder
	2	Bankoora	., 8, '90	0-03	Weather-very b.t. Ploughing for next rice sowings proceeds. Cotton is in pod. Kausto tel flowering. Transplanting of sugarcane continues. Price of common rice 20 seers per ruper at Sudder and 18) seems at Bissempore.
DIAM.	3	Birbhum	., 3, '90	1641	Nothing to report on as regards crops. Trice of rice ranges from 164 to 20 seers per rupes.
BURDWAN DIVE.	4	Midnepur	3, '90	Nil	Weather-hot. Boro crop being resped. Sugarcane in want of rain. Water becoming scarce in wells and tames. Prices of common rice :
Bon					Budder 18 Contai 20 Ghatal 18 Tamluk 11
	8	Hooghly	., 3, '90	-O:84	Weather-warm with indications of storms in the evening. Rain fell on Priday (2nd) evening. Garden crops and sugarcans want rain. Prices of common rice:
			]	•	Sudder 14 Serampore 16 Jehanahad 16
1		Howrah	., 8, 90	0.09	Weather—hot. Boro prddy nearly all reaped; only 4 annas crop expected owing to drought.
1	,	Central Die	tricts.		to disording
	6	24-Porghe.	May 6, '90	Bil	Weather-very hot. Prospects of augareans good. Sowing of our and jute has commenced. Rain wanted. Common rice sells at 15 seers per rupes.
VW.	7	Nuddea Kushtea Meherpore Chuadauga	" <b>3,</b> '90	Nil 1:16 0:4 0:77	Stormy winds moderate the heat. Sowing of early rice and jute going on. More rain needed.
BREIDERCT DIVE.	8	Khoolna Bagirhat Satkbira	,, 3, '90	0°18 1°97 0°68	Weather—hot and sometimes atormy. Boro is still being hervest d; outtorn in Bagirhat excellent and in Khulma fair. Lands are being ploughed for soming our paddy
RATION	9	Jemore Jienidah Magura	., 8, '60	0 93 0 82 0 30	Weather very hot and cloudy with occasional showers and high winds. More rain wanted to facilitate sowings of early rice, indigo, and jute, which are in progress.
		Namil		1.20	hone
•	10	Mooranede cad	., 8, 90	0-95 Mil	Weather—hot with passing clouds. Land is being prepared for shades sowings but rain is much newted. Price of common rice realing, and averages it needs per rupes in the district.
	11	Dinagepur Thakurgaon	,, 8, 190	0°24 1°92	Weather-changeable. Bowing of jute and bhades still continues. More rain wanted. Planting of supercase nearly over. Price of rice stationary both at Sudder and Thakurgaen.
	12	Rajshahyo Nattore Nongong	., 8, '90'	0-10 2-38 0-55	Weather-hot and secomable. The late rain has done great good. Jute and paddy sawings are in full swing. Some part of the district, bowsens, requirement rain.
Divis.	19	Rungvar Gaibunda Karigram	., 8, 90	0:03 2:60 0:37	Weather—cultry. And and jute sowings complete. Prospects of all crops favourable. More rain wanted. Wheat and barley ten annae crops.
KAJOHANYA DIVE	16	Bogra Sherpur Nowskilla	,, <b>8, '9</b> 0	0.67 1.40 1.25	Weather—damp, sultry, and semetimes stormy. Jute and our rice are being sown in some places, and the plants are up and thriving in others. The rain has done much good, and preparations for the assus group are well forward. Common rice is selling at 18 seems per rupee.
-	15	Pubna	,, 3, 190	0.25	Weather-hot with occasional storms. Av., onese, and jute still being sown. Prospects satisfactory. Prices unchanged.
	16	Derjoning	,, 8, 196	1:43	Weather-cloudy and fair. Potato, Indian-corn and chante murses in the hills doing well. Jute and sugarcane in the Termi still being sown. Prospects good.
-	17	Jalpigores (	,, 8, '9(	1.22	Weather—hot and cloudy with easterly wind. Bander paddy and jute are being sown. Condition of engarence good. Common rice selling at 16 costs per rupes.

No.	District and return		Rainfall at Sudder Station in inches.	. Character of the weather and state and prospects of the crops.
ENGA	I -concluded.			144
	Bastern Die	stricts.		2/
18	Proces	May 8, '90	1.05	Weather—hot and cloudy. Rain heavier at Maraingunge than alsowhere No rain at Munshigunge. Harvesting of boro paddy nearly completed Ploughing and sowing of rice and jute going on. Oheena and kaon thriving. Price of common rice 13 to 16 sears per rupee.
19	Farrendpur	., 8, '90	1-00	Weather—seasonable. Sowing of one and amon paddy and jute in progress.  Prospects favourable. Sugarcane improving. Price of common rice variety from 13 to 16 sears per rupes.
20	Backergunge	· , 8, *90	0.95	Weather—hot and cloudy with occasional showers. State of crops fair. Common rice sells at 12 to 14 seems per ruppe.
21	Mymensingh	., 3, '90	0-38	Weather—hot and seasonable. Prospects good, Resping of boro paddy as sowing of our paddy and jute nearly completed. Price of coarse ris 134 seems per rupos.
21	Chittagong	,, 8, '90	1.05	Weather—seasonable. Sowing of our paddy in progress. State of cally crogood, Prices of rice steady.
28	Nonkholly	,, 8, 90	0.22	Weather—days hot and sultry, nights generally cool. Ann being sown. Mor than half the chilly and pulse crops gathered. Price of rice stationary.
28	Tipperab	,, 8, °90	0-99	Weather -measonable Ou'turn of boro paddy estimated at 16 anna. Assaman, til, jute, and sugarcane doing well. Prospects much improved blate rain.
26	Chittapong Hill Tracte.	., 2, '90	0-11	Weather—sultry, with passing clouds throughout the week except the last da which was cloudy with occasional sunshine. Jam burning still continue but greatly retarded by rain of the previous week. Gathering of tobac and chillies still continues. Sugarcane doing well. Common rice is bein sold at 13 seers 63 chittacks per rupee.
BKHAI	Hill Tipperah		.,.	Report not received.
26	Patna	,, 8, *90	Nil	Weather—hot and dry. Threshing and winnowing of rubbi crops almost finished. Cheens promising well. Prices of food-grains almost stational with a tendency to rise.
27		,, 8, '90		Weather - hot. Cheena and sugarcane doing well. Threshing of rubbi croand opium weighments finished.
26	Sameram	,, 3, *90	Nil 0-12	Weather reasonable. Threshing of rubbi crops nearly over. Standing crop doing well. Prices stationary.
26	Durbhunga	., 8, '90	Nil	Weather—clear and hot. Prospects of mung and paddy continue favourable Went of more rain retards progress of cultivation for bhadoi crops. Common rice solling at 184 seers per rupee.
80	Moanflerpn- Sitamarhi	,, 8, 'RC	0·04 0·20	Wenther—hot. Winds chiefly from the cast. Slight rain in the Sitamarhi an Sudder subdivisions. Rain much wanted. Paddy. mnng, cheene, sama, an kodo still being sown.
81	Sarun	,, 3 '90	Nil	Weather-hot. Occasional clouds. Wind variable. Indigo indifferent exception the north and west of the district. Cheena good.
a	Chumparus	3, 100	Nil	Weather -hot. West and cast winds blowing alternately; cloudy at time Lands are being dug and ploughed for paddy and other crops. Kodo i being sown. Cheese growing well. Rain wanted. Opium weighment nearl fluished.
31	Monghyr	,, 3, 190	Nil	Weather—hot and dry. Easterly wind since last two days. Rain wante throughout the district. Lands are being ploughed for bhades crops in th Baguseral subdivision. Prices stationary.
84	Bhagalpar	,, 3, 190	Nil	Weather—very hot and close with cast wind. Mango crop doing well. Sugar cano and chaona promising. Prospects of indigo good. Hain much wanted for bhadoi ploughings.
DEAGUSTORE DIVE	Purnesh Kissengunge	,, 8, '90	Nil 0.63	Weather—generally easterly winds prevailing; nights cool. Rubbi outturn fair. Bhadoi and jute being sown. Prospects of crops fair as yet. Rain wanted
2004	Meldah	,, 3, 190	0:34	Weather—mornings cool and cloudy, days very hot; high wind with sligh rain yesterday (2nd). Harvesting of boro paddy continues. This crop hat been damaged to some extent by halistones in thana Kaliachak. Bhadoi and winter rice crops are being sown; rain is much wanted for these crops. Statt of mulberry and indigo continues fair. Leaves of mulberry are being out in some places. Common rice selling at an average of 144 score per rupee.
8	Southal Pergha.	,, 8, '90	Nil 0.02	Weather-at head-quarters cooler than usual with east wind. Rain wanted for sugarcane, and in some parts for agricultural operations.
				/

# SUPPLEMENT TO THE CALCUTTA GAZETTE, MAY 7, 1890f

No.			Rainfall at Sudder Station in inobes.	Character of the weather and state and privanects
R185.	<b>A</b> .			
1 88	Cuttack	414	***	Report not received.
89	Pooree	May 2, '90	Nil	Weather—hot. Lands are being ploughed for the ensuing earnd crop. Dains and many crops are being harvested. Prices of food-grains stationary.
40	Balasore	,, 8, 190	Nil	Weather—hot and dry. Rain wanted to complete cultivation. Average number of coolies on relief works 126.
Soul	th-West Front	ior Agency. May 3, '90	Nil	Weather—seasonable: very hot, Sugarcane doing well. Mango promising. No
				other crops.
42	Lohardugga Palamow April).	,, 8, '90' (up to 29th	0.18	Wonther-seasonable and hot. Lands are being ploughed. Mange doing well.  Prices steady.
43	Singbhoom	May 3, '90	0.04	Weather—hot and close Sugarcane is being planted. Holus and mange doing well. Prices stationary.
44	Manbhoom	ь 3, 90	0-01	Weather—hot. No crop on the ground except sugarcane, which is doing well.  Rice selling at from 18 to 26 seers per rupes.
	RISS   168   89   40   41   42   43	No. P.  RISSA.  AB Cuttack  So Pooree  AD Balasure  OTA NAGPORE.  South-West Front  Al Hazaribagh  April).  Singbhoom	RISSA.  AB Cuttack  AP Pooree May 2, '90  40 Balasure ,, 3, '90  OTA NAGPORE.  South-West Frontier Agency.  41 Hazaribagh May 3, '90  42 Lohardugga ,, 3, '90  April).  43 Singbhoom May 3, '90	No. District and date of return.  RISSA.  AS Cuttack  Sep Pooree May 2, '90 Nil  OTA NAGPORE.  Bouth-West Frontier Agency.  Al Basarbagh May 3, '90 Nil  Lohardugga palamow (up to 29th April).  Singbhoom May 3, '90 O-04

Published for general information.

CALCUTTA; REVENUE DEPT., The 6th May, 1890. P. Nolan, Secy. to the Gost. of Bengal. PRICES-CUERRIT (RETAIL) OF FOOD-GRAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF RENGAL DURING THE FORTNIGHT ENDING THE SOTE APRIL 1890.

# PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

																		QU	ANT	riti	ES PE	R RUP	er in
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9	Farreedpore	14	0	14 0	20 0	18	0	20 0	25	0	0	8	0	9	0	13	0 1	3	0 12	0		+4:	+40
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A Im subdivisions retail prices of salt see range are:—Guins by see r., autwa 10 seems 6 chittecks, and Hanceguingo 10) sours.

Bi In subdivisions retail prices of salt per rupes are:—Contai S seems, Toulionk 8 seems, and Ghatal III) sours.

Bi In subdivisions retail prices of salt per rupes are:—Contai S seems, Toulionk 8 seems, and Ghatal III) sours.

Chi subdivisions retail prices of salt per rupes are:—Consider the seems, Hasirhan 9 sours, Distincted Harbour (at Magrahat)

Chi subdivisions retail prices of salt per rupes are:—Koushton IO seems, Mcherpore 9 seems, Choundangs 9 seems, and Ranaghat 9

A Harting retail prices of salt 8 seems per rupes.

D A Harting retail prices of salt 8 seems per rupes.

Linear retail prices of salt 8 seems per rupes.

# Head-quarter Station Bazars of the Districts of Bengal on the 30th April 1890.

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G fu subdivisions retail prices of ant per rupes are :- Nattore B seers and Newgong B seers e cortains.

H In subdivision, retail prices of sale per rupeo are: - Mil hamari 9 seers, timounds 8 seers, and retrigitude 9 seers,

J At Silican retail price of salt 8 soors per rupse.

Maniokgungo 8 soors, Moonshoogungo 8 soors 14 chittacks, and Narain K In subdivision rotail prices of salt per rupse are:—Maniokgungo 8 soors, Moonshoogungo 8 soors 14 chittacks, and Narain

grange 10 seers.

In additions rotal prices of salt per rapec are: —Patuakhali 9 seers, Percappore 9 seers, and Bhola 8 seers.

In additions rotal prices of salt per rapec are: — Kisherogunge 8 seers, shemalpere 10 seers, Sherpere 8 seers, and Netrokena in a shell interest rotal prices of salt per rapec are: — Kisherogunge 8 seers, shemalpere 10 seers, Sherpere 8 seers, and Netrokena

# PRICES-CURBENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

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Nomber.	DISTRICTS.		Present retarn.		Next preceding	return	Corresponding return		Description outside.		Next preceding	TANGOLIO.	Corresponding return		Present return.	Work preceding	4	Corresponding return	of last year.		Freedow Poster Be	Nort preceding	retura.	Corresponding return	1	Next preceding	return.	Corresponding return of last year.
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23	Noakholly"	-	100		19								p @ 4		40		4 0			0.0		- 0.0		001	400	8.0	н	840
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27	Gya	.	17	88	15		15	8.	24	0	24	4.	21 (	11	8	11	8	8	8	16	0	16	0 1	2 8	000			400
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20	Durbhunga*		.04					. •			**	.	* * #		,,,		01					***		000	-			4#9
00	Mosufferpore		16	0	16	0	12	8	25	0	24	0	18 (	9	0	9	0	9	0	15	0	16	0 3	.1 0	8.00+			***
1	Sarun	-	15	8	15	4	14	8	21	В	21	8	20 8	8	8	8	8	8	8	18	8	15	6 ]	2 14				***
32	Chumparus	-	16	0	16	0	12	0	28	0	28	0	21 (	8	0	8	0	7	0	16	0	16	0 1	1 8				***
18	Monghyr	-	17	13	17	13	16	18	23	1	23	1	22 (	15	12	1	12	12	D	17	- 1	17 1	8 1	3 2	000			***
84	Bhagulpore	-	17	11	17	11	16	6	24	0	23	5	21 7	1	1 N	nd. /10 ow.	- 2	12	10	12	No	12 1	(1	3 4	***			*00
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16	Maldah		18	0	18	0	16	0		00	80 0		ı	10	0	8	0	10	0	13	0	15	0 1	5 4	***	* 0		mo
17	Southal Pergha		13	0	13	0	18	0		p.3	- 0			13	0	13	0	13	0	16	0	16	0 1	S 0		٠.,	.	+40
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9	Pooree		13	2	11	13	13	2	••		844		481	17	1	14	7	11 .	18	21	0	ZI (	0 1	5 12				***
0	Balasore		15	0	15	0	17	0	18	0	18	0 1	3 0	13	U	13	0	12	U	19	0 2	20 (	0 1	7 0		7-0		nde
	CHOTA NAG	PO	RE.							.0																	6	
8	outh-Wast Prouts	1		1		_		4																				
2	Hazaribagh		13	5	16	-	14	8	13	0	18	0 1	8 0	10	U	10	0	8	0				0	6 (			-	8 0 1
2	Lohardugga	1	8 (0	0 1 old)	Ro 14 Whi	0 1	18	0	18	0	28 (	0 1	6 0	14	0	14	0	18	1	10	Eidd O (: Doan O (	rae.	0 11	IS (	-	-		1000
3	Singbhoom		10		10		14	0	10	0	10	0 1	6 0	16	0	16	0	14			0		0 15	2 0	7			460
14	Manbhoum		18	0	18	5	13	0	30	0	30	0 9	0 0	14	0	14	8	13	0	22	0	92	0 1	8 (			1	

OALCUTTA, The 6th May, 1890.

<sup>\*</sup> Return not received.

† Price of common rice at Jajpore 22 seems 5 chittacks and at Kendrapara 23 seems 10 chittacks por rupee.

N At Cor's Bazar retail prices of salt 5 seems per rupee.

O In subdivisions retail prices of salt per rupee are:—Buxar 10; seems, Sasserson 10 seems, and Bhabuah 9 seems.

P In subdivisions retail prices of salt per rupee are:—Hajipore 9; seems and Sitamarhi 10 seems.

1

JOWAR I	np. Che	1	BAJRA	PKR M.	mar,
Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.
it. a. P.	R. A.P.	R. A. F.	R. A. P.	R.A.P.	R.A.P
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ITALI	OR K AN MIL ris (tsi	DET.	-	OR	BU	MAC	NA.	
	ż	à	1	1	ż		ż	_
Present refure.	Next preceding re-	Corresponding re-	Present return		Next preceding r	turn.	Corresponding r	turn of last year.
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454	e0 s	***	17	0	17	0	17	-
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Pons Pons	a con Cr pisetum (doum.)	typho-	MARK (Blown	SA OR	Rag
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	id on O sisetum idoum.)	typho-		RUA CR eine Cor	
resent return.	feat preceding re-	turn of last year.	resent return.	fest preceding re-	Corresponding re-

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9706

KANONI OR KARUS, ITALIAN MILLET. (Sotoria statica.)

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19 8 21 0 21 0

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13 4 13 0 16 0

9724

MARI (Elous	ine Cor	RAGI.	100	ITA (S	GN LI.	A SII	M	KA III Iali	KT	)
Prosent return.	Next preceding return.	Corresponding return of last year.		Present return.			Next preceding return.		Corresponding return	of last year.
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9746

# Station Basars of the Districts of Bengal on the 30th April 1890-(concluded).

																		ES. MA		D				
	MAIZE MAIZE		CA	AR OR DJAW I anus in	PEA.		Print	7007.			SA	LT.						84	LT					
Present return.	Nort preceding return.	Corresponding return of last year.	Present roture.	Next preceding return.	Corresponding return of last year.	Present rotura.	Next preseding	Corresponding return		Present return.	Manh annualities	ď	Cornemondine return			Present return.			Nort preceding	recurs.		Corresponding return	of last year.	districts.
s. Cb.	6. Ch.	4, Ch.	js, Oh	, G. Ch	a. Ch.	s. C	h. 8. C	h.   8, C	. 18	. Oh	. 16.	Ch.	. 8.	Ob.	Re	. А.	P.	Re	۵.	P	Ka Ka	stor	n J	Districts—constuded.
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																								BEHAR.
1 ***	92 0	19 0	28 0	24 0	21 0	180	0 180	0)130	0 26	0 0	10	0	10	0	8	14	0	8	18	9	8	12	6	Patna.
100	144		21 0	21 0	18 4	160	0 160	0.200	0 8	2	9	2	9	2	4	2	0	4	2	0	4	2	0	Оуд
101	001		20 0	20 0	18 4	160	0 160	0 160	0,10	0	10	0	10	0	8	15	0	3 1	15	0	4	0	0	Shahabad.
		116			***	***	100			***		+4		•					100			104		Durbhunga.
21 0	20 e	16 0	18 0	19 0	20 0	160	0 160	0,160	0 10	Po	10	0	10	0	4	0	0	3 1	2	0	8	12	0	Mosufferpore.
20 0	20 8	16 8	20 0	20 8	21 0	160	0 160	0 160	0 8	9 8	9	8	10	0	4	1	0	4	1	0	8	15	0	Sarna.
22 8	24 0	17 0	28 0	***	21 0	160	0 100	0 160	0 10	0 0	10	0	9	8	8	14	0	3	15	0	4	0	0	Champerus
21 0	21 0	21 10	28 1	28 1	18 10	147	0 147	0 147	0 8	Q 12	10	4	9	8	3	14	6	3 1	14	9	4	0	0	Monghyr.
22 11	22 11	17 10	20 8	21 7	20 8	176	12 176	12 176	2 10	0 1	10	1	10	1	3	15	6	3 1	15	0	4	0	0	Bhaguipore.
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, 90×	***	**	***	007	000	160	0 160	0 160	0 8	0	9	0	9	8	4	0	0	4	0	0	4	0	0	Maldah.
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1 100		4 ***	19 11	19 11	,19 11	80	0, 80	cy 00	0, 8	3 0	111	0	11	0	4	7	0,	3 1	12	0,	3	12	0	Cuttack.
*4*	***		18 2	15 12	18 2	80	0 50	0 80	0 17	13	13	13	10	8	3	6	0	3	6	0	3	8	0	Pooree.
104	40.0	004	***	000		160	0 160	0 160	0 10	80	10	0	10	0	8	16	0	3 1	14	0	3	15	0	Balanore.
																				_		-		A NAGPORE.
<b>23</b> 0	22 0	16 0	23 0	121 0	118 8	390	0 390	0 320 0	8	0	8	0	8	8	4	4	0 1	5 4	. (	0 4				t Frontier Agency Hamribagh.
30 0	W. O.	(	27 0	Bmall.	14 12 7	100	0.190	0 140		P	8:	19	8	0	4 1	0	0	1 8	3 (	0 4	1	4	0	Lohardugga
	84 0	1	18 0	1	18 8							8		0	4 15		0			0 8				Singbhoom.
		22 0	14 0	14 0 21 0	16 0			0 200	9	T	9	2		0	4 4	6 (	0							Manbhoom,
Q	In act	dinini		l mains	of call		10000	re :- Be	1	reni i	N ne	onra.	and	Ja	mui	9 0	ecr	w.		1				

9 In subdivisions retail prices of salt per rupes are :- Beguseral 94 seers and Jamui 9 seers.

At Bhudruck rotail price of salt 8 seems per rupas.

Published for general information.

# PRICES-OURRENT (wholesale) of Food-grains, Firewood, and Salt

					W	FEA	7.							BAR	LUX						1	Rige	, 20	<b>af</b> 1	ori			1			Ri	CE,	COM	EMOR	ľ.	
Nageber.	MARTS.		Present return.			Next prededing return.			Corresponding return	55 Left 300.		Present return.			Mess preceding return.		Commence flow orders	of last year.			Presont return.			Rent preceding return.			of less year.			Present return.			Heat preceding return.			of last rear.
		R	. 4.	<b>P</b> - ,	R	. 4	2	R.	۵.	y.	B.	. <b>a</b> .	P.	12	. 4.	P.	R.	۵.	2.	B.	٨.	2.	R	٠ 4.	2.	R.		2.	R.	<b>A</b> .	2.	86.	. A.	P.	BL.	. 4.
1	Calcutta	9	12	3	2	11	9	2	13	7	3	0	8	3	0	5	8	1	8	4	5	3	4	6	0	4	0	8	2	10	8	8	11	0	8	18
2	Sersjgunge	9	8	0	2	8	0	2	5	0		000			444			teka		. 6	14	0	4	14	0	8	10	0	8	0	0	8	1	0	2	
8	Dacoa	3	0	0	3	0	0	2	8		8	7	0	2	7	0	1	8	0	8	13	0	2	18	0	3	0	0	2	10	0	3	10	0	2	10
4	Namingange		0.00			- (0)			***			-00			•					8	9	0	8	Đ	0	8	0	0	3	0	0	2	18	0	2	18
6	Chittagong	3	8	0	3	8	0	3	9	0		800			+==					8	0	0	3	0	0	3	8	0	2	8	0	8	8	0	8	0
6	Patne	2 2	4 8	0	2 Thite	5	3	8	18	0	${}$		0	1	9	8	1	15	6	8	15	0		12	0	3	14	0		5	0	2	-6	0	8	1
7	Balasere	3	8	0	3	8	0	8	4	0	8	0	0	8	0	0	8	0	0	8	0	0	3	0	0	8	4	0	2	0	0	1	14	0	2	1
,	Pooree		-			-			-			000			-			-			0.000			*00			000		1	14	0	1	14	0	2	4
P	Cuttack	3	4	0	R	10	0	2	10	0		***			-		q	0079			10	0	8	10	0	8	10	0	2	8	0	8	8	0	2	30

Calcutta, The 6th May, 1890. in the undermentioned Marts of Bengal on the 30th April, 1890.

G	K	AD	AL	AS	ro	IA, IIE S	Jus	NAC	ILA IA.	9		Burg				OB large		aiei	l.			C.	A DJ	HAN	FE	A. Opt.					F	ik z	WO	oja.							8.	AI/Z	1.0				
	Present reture.				North resemble report			Corporation patren	Ven.			Present betarn.			Next proteding setum.			of last tree?			Preferat tetara.			Nest protesting outsing.		Comments	of last year.			Treesur Belging.			Merchecoding return.	-	Octronostding return	9			Tresent return.			Hertpreceding return		Charmenon Line reamon	of last year.		MARTS.
3	. 6	). P	1	48,	. 4	. 7	1	R.	Å٠l	2.	B	. 4.		*	. 4	· P·	R	. 4.	7.	8.	A.	P.	4	. 4.		R.	<b>A</b> 4	-1	R.	, <b>A</b> . I	-	R.	۵. :		R.	A. 1	-	R.	<b>A</b> .	2.	R.	▲.	2.	B.	4.	¥.	
3	1		4	2	0	) (	0	2	2	8	1	16	6	1	14	. 8				3	3	2	2	1	5	8	5	2	0	5	4	0	5	3	D		9	8		2	3	9	5	8	9	5	Calouppa.
8	.8	,	4	2	9	) (		8	8	0		000			000			200			***			oqu			100-1			000	1		90-1			000		8	14	0	8	14	0	3	18	8	Sorajgunge.
	15	3	9	8	C	)	0	3	0	0		004			600	,		pos	1	3	9	0	2	18	0	2	8	0	0	4	0	0	4	0	p	8	0	4	2	0	4	2	0	3	14	0	Duosa.
8		3	4	2	19	1	9	8	:0			0.04			404			800		3	9	0	3	p	8	3	8	0	,0	8	0	0	A		0 8	10	0	3	12	0	3	12	9	3	12	0	Nacaing ung
3	1	3	9	8	1	ı	0	8	0	0		0.01			040	,		pou			800			+	9.2		100		л	Б	4	0	6	0	0	7	0	8	12	0	3	18	0	4	0	-0	Chittagong.
1	A.	1		1	16	)	-	1	15			400		1	15	3 6	2	3	.9	1	u	0	1	10	-	1	14	9	0	8	0	0	.5	.0	:0	5	0	3	14	9	3	18	Q	3	12	6	Patpa.
2	35	3	0	2	1	,	ó	2	14	0		986			***			pale			•••			ago	1		504		0	4	6	0	4	8	10	4	6	3	14	0	3	14	0	3	15	0	Belagora,
	90	je je			40		1		pa-			004			-9	4		400	1			-		ng»	1		004	-		001		4	mbo			000		3	6	-0	3	ß	0	3	ß	0	Pourse.
2	1 1	5	0	2	1	,	0	1	11	0					-			,000			0	Q	2	p	9	9		0	-0	B	9	0	ş	9	0	,a	0	4	7	9	3	1,9	U	3	12	0	Cuttack.

Published for general information.

P. NOLAN,
Seey, to the Goot. of Bongal.

# Meteorological Report of the Province of Bengaj

5									STATE	ON OBB	BB.VA	MOIT	L				
Division		1	Arn	PRESE	ın.	Win	D.				TRE	PERAT	TRE.				
Mersosocostcat,	Diss name.	Representative station.	Mean barometric height, 5 A.M.	Ken retuced to sec-jevel.	Yaration from meas.	Prevailing disse- tion.	Mean wind we. locity.	Highest darles	Date	Lowes during		Calle	Mean maximum temperature.	Mean minimum temperature of wreek.	Mean duly ten- perature of work.	Variation from sormal means of week.	Menta, 8 4.M.
-	Postes on on	Pooree Gepulpere False Point	29-778 29-745 29-770	29-787 29-787 29-791	-'204 -'087	AW W 28	15	92-7 91-3 94-0	soth April	88'8 78'8 78'0	27th 27th 27th	Apell	1°10 8'88 0'00	78-6 61-1 78-0	84'8 86'9 66'3	+2.5	100°
OBTHA	Outtedt	. Outtnok	29-714 29-712	29:775	+*007 *017	88W	98'6	118'4	soth	72'3	20th	99	100'8	70'1	98'1 86'8	+318	867 867
	Bouth-West Midnapore	Balasses	20'755	19781	-7951	86W	400	96.7	mark	78'0	seth		9816	7916	98'5	+0"3	46
ı	South 24-Pergunnake	Sempor Island	29-62)	29'773	-1900	80 W	114'9	100-4	Ind May	70'8	90th	30	10014	70'1	90'8	+17	8619
142.	24-Perguanaks	Calcutta	20'758	28*775	~ '014	88 W	98	100'9	30th April	67*2	meh	94	8617	7816	0015	+019	051
BRHOAL.	Hooghly	Burdwan	201061	59-761	-1910	Variable	6013	100'2	30th	87*4	204h	-	90%	76-1	8716	-07	83 4
Water 1	Burdwan	Bankoers	901482	20 743	1001	Colm	99'0	300'6	soth "	ere	20th	10	9978	76-7	57*5	2	B1
-	Beerbhoom	Renougungo	201464	29'780	+1914	South-	198"1	106'5	96th ,,	60:0	soch	01	100'4	77:3	8819	+0'3	887
BOTTH.	Meersbedahad	Borhampore	201003	29-761	*027	westerly.	100*4	101-7	noth "	6013	20th		9616	78'0	86.8	-179	7979
-	Nudden	Krishnegher	29710	29 767	1001	052	167'5	102'8	soth April	66.2	soch	98	9914	78'2	27"8	+17	101
	Jassoro	Jeneoro	\$97700	19-773	-168	Variable	76-1	80'0	700 ps	80%	souls		9616	787	8616	+0%	liv <sub>1</sub>
-	Chittagons	1.7	29-716	291806	1000	2031	97-7	92°E	27th April		meh	P0	8917	75:3	8815	+17	81/6
	Chittenna Hil Tracts	Domagizi	29:774	20720	-1000	Southerly	8818	04'8	Soth April	6014	201h		87.8	75-9	8815	+17	101
BEFFAR	Roakholly	Noskholly	20'707	20'811	-1030	å calm	192'8	9010	int May.	8818	20th	88	0014	76'7	82"1	+0'8	927
Bess	Parreedpore	Purrood pore	301704	291754	-1000	South-	13916	96'5	1st	6579	soth		85.1	78'6	88'8	40%	Dors
EAST	Daces	Dagga	39745	29-780	1084	Bouth-	186'8	9016	1st	8072	muh	49	91.3	7810	88'1	~0'8	017
	Commiliah	Commillab	20-714	89-791	-1046	BW.	11014	34'8	anth April		281h	.,	36'3	72'0	8818	-01	01
l	Mymontings	Mymensingh	29'734	29'795	1918 1918	E6E	116'3	91'7	20th April	65'1	25th	69	91'1	72.6	81'1	+179	177
	Bogro	200.0	39*731	291778	'087	Easterly Variable	137-9	981	98th ,,	641	20th	91	80.2	22.0	81.3	-1.3	7875
OAE.	Pubse		39'700	291770	010	Variable	8919	86*4	26th	657	shih	80	9616	74 0	83'8	+01	377
1	Rajshahyo	leab. Maidah	201092	29/744	-	BAE	6012	95.15	2nd ,,	6619	zech		96'8	791	8815	-	801
	Dinapopoto	Dinagoporo	30-60-0	30-005	-1017	North-	184'3	9013	20th	65%	Stale	9.0	9016	71'4	81'0	+07	791
Honr	Sungpore	Rangpore	101673	29:799	010	B	861	94:8	and May	66"7	20th	- 04	80'7	6916	79-7	+81	710
	Julpigores	Julpigoree	\$61478	39-763	-1066	7	248%	91.19	2md ,,	1			8716	1	1	2	771
	Derjooling Hill Tracts .	Darjooling	22:98:	-	-	Variable	12816	6416	20th April	61.7	mth	April	60'7	4818	86'8	+10	56'5
4	Furnesh North Bhagulpere	Purnosh	291657	29704	908	North-	1100	8916	and May	8616	mth	90	95 1	72'8	83-9	+273	1073
Rents	Mosth Buskerpore		39:378	20720	-	nesterly.	3067	,	,			2		7		8	801
	Durbhungs	Durbhungs	207000	29*774	-1986	Variable	18619	9014	2nd May	2		2	96'8	9	2	2	107
Nonre	Chusaparus	Motibaci	29*563	19:713	+ 080	ENE	180-7	100'3	find	86'8	soth	Aprii	95'0	71.8	8418	+1'0	813
- 1	Saruh	Chupra	991671	39'708	+ 103.6	Variable	1749	10818	Sed ,,	6013	27th	0.0	96'0	727	81.88	-5.0	611
4	Chahabad	Behree	291429 191523 291666	29-786 79-712 29-766	4 1690 4 1690 4 1690 4 1690	Variable W	198*1 188*8 186*6	309.0 109.0	and	60.78 60.28	27th :7th 27th	00 01 00	96.7 80.8 80.8	74·1 76·8 78 o	85'0 84'5	-5'5 -3'7 -5'5	R210 9213 18874
BERAR.	Gya	Gyo							vations they								
	Putna	Bankipore	391363	20:707	+1986	8	136'1	100 5	ted May	6917	27th	10	96 3	74'8	8616	-24	819
Bo 0.5 II	Routh Rhagalpere	Shaguipere	20.500	29750	-*801	Calm	6816	100-8	noth April	87'0	ansh	24	9618	7610	88'0	+1'9	817
i	Southal Pergrammi s	froomka	297363	29'700	-1905	Variable	667	100'7	806h ,,	67'6	soth	10	96'7	75'6	06'1	-08	129
48	Hazarreagh	Hanribagh	S7 761	20 776	+ 1018	Mouth.	278'3	100'5	lot May	60'8	874h	**	9416	72'5	83-5	-516	8019
NAOPUR.	Hankhoom	Stancher	37:007	39 776	+*018	South- westerly.	179*8	300'5	ist & Smi		87th	40	9410	784	88-6	£'6	610
,	Singhboom	Chyebassa	291900	297841	+ 1936	South-	01	10016	Sod ,	6917	87th	April	108.8	76'4	89'5	-910	951
Assau.	Anones		297-679	29'790		North-	9607	8917	20th Apri	60.8	apth.	18	9017	70-8	70.8	+1'7	761
As		Bilchar	19'706	2978319	-'16	casterly, Calm	6716	91.9	South	6/8	200th	be eg	80:3	71'7	79'3	+1'6	781

The housely of the atmosphere acaptessed at preserve and temperature are the arithmetical average or means of the reading during the same period for the life the atmosphere acaptessed at percentage, acturated air being presented by 100. A coar sky is denoted by 0 and an overcast sky by 10. The number of the interest of the same are average affile transful in that districts determined from the returns some in by the sufficient must state in further action for the period in question during the period in question during the period of the sufficient same and the same action of the

the week ending Friday, the 2nd of May 1890.

							DINTE	ICT OB	SERVATIO	NB.							
	ig.	1 4						- Rass	TPALL.								
	for week.	of wrek	Oy 1	VERE.	81	nce 1st of Ag	ril.	Sinc	oo lõih May	1880.	pumbrr y days.	daya	Representat	ive	Dierm	IOT.	
	Average clrs	Rainfall of observing s	Mean for dustrict.	Normal mean.	Wean for district,	Normal mean,	Carlation.	Mean for district.	Normal mean.	Variation.	Average number of rainy days.	Normal numb of rainy days.					
	1'4 0'9 1'3	Nil Nil Nil	2012	0.11	0.08	3'04	-1.01	77'03	36'20	+19'34	0°0	0°°s	Pooree Gepalpore False Point	::}	Poores	***	44
	216	6100	0108	0198	0'14	1714	-1.00	68'44	84190	+13:45	0.0	0.6	Cuttack		Outtock	***	***
	0	Bisl	Nil	0.00	0146	1194	-1:48	44.06	87'86	- 4'89	0.0	1.8	Balasore	***	Baisson	***	9.00
	8:0	2011	0.02	0.63	0403	1'90	-1'85	60:00	66180	-0.88	03	1.3	Sauger Island	1 . {	South 24-Per	Midn	apor
	1'6	2011	Ures	0.00	0'51	1198	-1.41	47/91	86 #1	-8.19	0.3	1%	Midnapore	-94	Midnapore	***	
	1'9	0'06	0'81	1103	1'96	2:54	-1.00	86198	66'68	-0.72	0:8	1.8	Caloutta	{	Howers Houghly	***	***
	0:1	A100	0.10	1.00	2104	2'68	-0.48	40183	51 48	-6'16	10	8.0	Bordwan	***	Burdwan	000	10
	31	0.02	0100	0145	0175	1'84	-0.20	57 57	53'44	+213	1.0	13	Bankoors		Baukoora	200	00
		Nik	0.03	0*37	1.17	1'36	-0.11	54 31	54'59	-0.27	0.9	316	Rancegunge	- 20	Rearbhoom West Burds	100	
	3'6				1.20	1.63	0.05	PA.NO	88:76	-0.75	972	1'4	Berhampore		Moorshedab		
	313	Nil	0:68	1:00	3:22	8:10	-0.77	84:33	88.08	-0°78	1.0	1°8	Krishnaghur	***	Nuddea		-
	3:8	20113				1	-0.03	88.94	Ø0*19	-1:01	1:0	310	Jessore		Jesson	4 54	000
	67	0193	0.83	1-21	3102	3.02								*** {	Khooins	800	000
	310	8196	0.92	1'86	4.30	378.5	+0.78	107/20	190'11 mo-64	-12'91	1'0	2"1	Chittagong	0-0-0	Chittagong Chittagong B	*** ****	100
			٥	1185	4149	4:41	+0'90	85-69	83 61	-0.41	1:8	212	Barries]	101	Backergung		raot
	1.1	0185	0.40	5.31 1.90	8:58	3.34	+0.85	99195	117'50	-17:33	1.8	210	Noakholly	0-010	Noakholly		000
	1'6	0148	1,10	1.63	8148	4:81	+1'17	69100	63194	+5:15	8.2	2:3	Furreedpore	***	Parreedpor	100	1181
	516	0190	1:00	1.99	6.90	8.01	+170	84'74	68187	+15'97	218	2.6	Dacos		Dacca	000	944
	4.3	1.38	1.10	2100	8139	5"63	-0.44	62.93	80138	-16'35	3'3	214	Commillab	141	Tipperab	ree	001
	4.0	0.00	0"67	1%	8163	4*78	+0'94	96%	7516	+2176	118	2.7	Mymonsingh	0.00	Mymensing	h	000
	219	0.02	1723	0:06	3:30	2117	+1.19	60.05	61.25	+6'61	110	17	Bogra	ega	Bogra	000	
		1 83	0.81	1,30	4'01	3.30	+0 66	61:40	50 96	+2'14	1:0	2.3	Serajgrange	~=	Pubna	6 th at	001
	1	t ()	1 13	6310	4:33	1.90	+ 2174	\$8176	67'18	+1'88	1.7	1 6	Rampore Box	ulnal		***	401
			- 17	0.49	9135	1110	-0 83	40 25	56'54	-16'sb	018	0.1	Maldah	03-	Maldab	***	0.00
			58	0'65	1'34	1'26	→0.02	55'87	89.91	-1 06	016	1'3	Dinagepore	9.04	Dinnitebore	000	***
			12	1.03	8177	4*15	-0138	88 00	70.67	+9.29	1.2	27	Rungpore	60 =	Lungpore Julpigoree	994	2.94
	1		6'04	1177	7°21	4°92 5°83	+0105	125:00	118'40	+0.43	310	3.0	Julpigoree Darjeeling	14- 8	Cooch Behar Darjeeling H		tra.ne.
			9/96				-0.89	78:77							Purnsah		
	2.0	****	0.12	0.73	0.43	1.61			61134	+14.83	0.8	1.2	Purmesh	{	North Bhage		
	1.7	6.0	0.08	0.31	0.21	0'73	-0.45	49123	40 14	+4'09	1'0	9.8	Mosufferpore Durbhunga	241	Mesuderpore Durbhunga		Ter
	, 1'0	Did.	Nil	0:34	0.18	0°76	-0'87	64:11	4818	+6'18	0.0	9.8	Motihari	949	Jhumparun	004	0.00
	1.7	Nil	Nil	0156	0103	0.70	-0.51	40.23	45194	-2.62	0.0	0.0	Chupra	491	Sarun	004	F00
	1'4 1'4 3'5	0.08 0.09	0103	0.12	0.08	0.53	-0.15	40.05	41.18	-0.01	0.4	0.3	Dehree Buant	}	Shahabad	0)4	000
	3.9	Nil			610		0.00	87 38	42.71	-9.33	0.3	6.3	Arrah Gya		Gyn	26-9	
	1'4	Nil	9:04	0104	0.04	0129	-0.30	43:06	42 81	+1.29	0.3	0.3	Bankipore	101	Patna	10.0	900
	3.9	0.01	0.02	0.10		0°37						0.9	Bhagulpore	{	South Bhagui		241
	26	Nil	Mil	0'17	0:51	0.92	-0.00	43:04	84'88	-1'64	0.0			•	Moughyr Southal Pergr	1000	t is
	216	Wil	2611	0123	0178	0'88	-0.13	86184	62'70	+ 2186	0.0	019	Doomka	000	Hazariba th	1110001	
	2'9	NII	Nil	0.418	NII	0.21	-0:31	46'60	82'18	-8°31 -4°95	0'0	016	Hasaribagh	6	Lohardugea	***	
	816	Nii	2/11	0.07	0.772	6521	-0.99	39.95	81'06 81'06	-9.05	0.0	0.2		{	Mant noom Singbhoom	146	
	8-0	0106	0.04	0.12	0.04	0.78	-0'64	40.88	94.29	- 6'47	10	0.8	Chyobassa Sibmgor	3		***	
۱	6.0	D181												}	Amazo		
	217	3.08											2.5	j			
1	7.0	0.13															

was. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greaters of reinfall the normal means among the part of the say covered, the whiches. being denoted by 10. Under the head lineared observations of reinfall the normal means of the determinance are the numerical average of the reinfall return received in the district are the numerical average of the results are the subdivisions.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 2nd of May 1890.

						AINPAL		-			PAL		Average	100-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	As
strarological division.	District.	Station.	Saturday, 20th April.	Sunday, Tilb. April.	Monday, 25th April.	Ineschay, 29th April.	Wednesday,	Thursday, lat	Friday, 2nd May.	Number of	Rainfall of	Total rain- fall since let of April.	total rain fail from lat of April.	Total esta- fall action 1000 May 1850,	fro Mi
11004	Pooree	Foores	###### #####	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	20042-	******	******	401.00		Nii Nii Nii	No. 1	Nil 0'00 0'08	0184 0188 0.48	82:03 81 '- 0 70'03	
		Hanpur Fulse Point One Satpore Popli	######################################	100.00	******	######################################	, p c t	******	490,000	No.	Nil Nil Nil	Nil Nil	30:000 } P	77'53	
	Cattack	Jagataingpore Banki	*****	******	0.10	*****	******	*****		NP 1 Nil	0'10 Nil	N il 0*19 Nil	0°75 0°88 1 4 4	76*10 561075.	
	2	Kendrapara Jajpora Dharmeolo	000110 000110	201444 440-44 201444	**************************************	******* ****** ******		285.44 4.07755 pad 194	494	Nil Nil	Nd Nd Nd	N:1 0'38 0'95 N:1	1 10 2 04	75 tr3 AU:16 61:05 73:78	
	Balasore	Salipere	******	100.000	000 001 000 504	-7 045	******	100.40	000000	Nil Nil	Nit Nit	N11 0'80	1:33 2:00	61:71	
		Borah Borah Balasoro Jeliasoro	*****	******	000000 000000	00+405	00000	404 07 400 07 200 007	004100	No No No	N.1 N.1 N.1	0°53 9'88 Nil	2'20 2 78 1'35 1'60	48'41 40'88 44'48   57'81	
CIR-Wast	Midnapore	Baripodah	00010	015100	*****	P6+25x	800000	040440	000 Hee	Na Sil	NH NH	0:77 Nil 0:02	1.81	57 d3 67 dp	
Bryaal.		Saugor Island Tumlook Midnapore	0.10	447196	40.1-	195000	\$ 6 0	1011-0 1011-0		No.	0 10 Nil Nil	0°10 0°07 0°70	1.67 1.68 2.63	60°00 47°83 42°35	ı.t.
		Kuirakaiy Garbella	204014 204044	0.0000	* 0 * 10 * 0 F	**	****** *****	00 14 899411	******	No.	Nil	3511 0148	ę P	60°77 81°98	
	24-Pergunnaha	bour Counting Town	0.04	10120	*4***	1 000	100.00	*****	0.50	Nil	0:05 6'23 Ali	0°34 0°34 0°82	2'61 P 2'01	84:76 86:46 86:20	
		Alipore Jail Barrackpore Dum-Dum	800 - 14 800 - 14	*****	447 cp +	199104	140400	*** **	0.10	Nil	070 Nti 0 16	1.67 0.84 0.86	215 8133 2124	81 28 66:64 69 %3	
	Mammb	Baraset	016	1.13	0.01	* 0 * 0 * 0 * 1	481.00	******	79010-	2	0.01	b'12 0'81	2 31	67 69	
	tlowrah	Howrsh Mehesreka ( <i>Ooloberiak</i> ,	0*07	500 500	11 474	04	14.2744 h	******	050111	i	01:7	0.05	2,41	85'58	
	Hooghly	Serampore ilooghly Juluanshad	******	010761 614100 910 mgs	000 100 1 10 10 10 10 10 10 10 10 10 10 10 10 10	******		49.22	0171	Nit l	0°71 0°14 Atl	0.18 0.40 1.50	2 13 2 4: 2 33	87'44 39 61 66 10	
	Burdwan	Culue Surdwan	*****	0.0	0.05	*****	*****	*****	014	Nil	N (1 0*02 (*1)	2°48 1°24 2°10	2:73 2:00 2:14	45.48 47.49 40.99	
		Ranesguage Mansur	001004	******	0.02	18411	000000	*** **	01(10)	Nil	0.02	9 65 1 87	1'34	87 57 83 80	
	Rankoora	Hunkoora Hishenpore Multara	199.00	6,03	0°22	******	100.10	*****		No.	0°03 0 22 Na	1.02 1.88 0.93	1 97 0 P 4	53'06 59'65	
		Khatra Indes Kn'alpore		101110	41114	******	4147**	61441 61441	984.0A-	N: N:	Nil Nil	0.10 1.50 0.18	3 5 0,84	66101 47 12 81100	
		Anda Gungajalghati Kaipore	999 a a a	200°48	******	*****	001.00 001.00	*****	******	No.	Nil Nil Nil	0150 0148 Sul		41 34 63 82 59 89	
	Heerbhoom	Bh. Scory	90mag r	******	0108	499111	******	00011	******	SE	Nil Nil	1°19 1°10 2°46	110	50 85 50 21	
		Rampere Hant Bulpare	******	40000	- 20 500 000 004 000 004	******	001111 001101 001100	******	0112	Nii Nii	0112 N 11 0124	0 42 2 0 4 2 1 7	1'50	481(A) 87154 80184	
	Nuddes	Ranaghat Kishuaghur	****	01 - 00M 1311000	101000	000.000	000 000 000 000	414.00	401 .	No.	NII Nii	1'40 1'40	3:2# 2:93	88'03 48'55	
		Choosdangs Moherpore Kooshten	0 40 1 11	202 -01 12220 12220	******	01010 00100 00100	001.00	020100 004	01.5	20. 21	6 85 0'65 1'84	2:70 2:30 3:81	3 (4) 3 (4) 3 (9)	82:91 85:76 80:83	
	Khootma	Satkhira Bagerhat historina	0189	0.64 1.99	401101	10000		0 c c qqq	0°11 0°64 0°13	90 90	0:79 1:07 0:58	4*88 9 98 9:41	3°27 3°69 3 57	89*05 85 41 80*63	
		Nakipore Rampal	0.49	3:30	**************************************	20000 20000 20000	541+00 	110-00 11-150 1-103	0.53	Nil	311	1'41	9	3 5	
	Jensore	Namil Joseph	0'29	0:06 0:06	40338+ 444+4 444-64	******* ******	******	******	0/34 0 67 0144	2 2	1168 6198 0144	4184 4131 2.33	5 82 4 23 8 70	87 08 68 66 88 27	
		Bongong	0135	******	0+000	10010			0.37	3	0:76	\$19H 2104	\$ u7	49'45	
	Moorahedabad	Kandi lierhampere Laluagh	******	**************************************	1 ##### ******** *******	200100 48214- 601 P1	*****	444144 4800-4		No No No	NI SII NII	0.67	1 77 1 47 1 24	80 NA 60 NA 6. 40	
		Junguage Laigeis	++++++++++++++++++++++++++++++++++++++	000000	**************************************	001111 extrat	*** . !*!-## ****##	****** ******* ****	0120	SH	80 80 80 80	3 (25) 210(4) 0 (4)	1148 11-9 1164	87:63 87:68	
		Jiogunge Akkriyanj Patkabari	0.08	407	 	******	651A.	*****	60 cm.	Nil.	8010 8010 11100	(11-0) 100 E 20 E	*	44168	
M SREGAL	Chittagong	Cox's Baser Chittengong Autwodes	1.01	40.0	to 664	400 pgs	##4+00 62-74+	******	01-46>	Nil	Nii 1 05	4**/5 613.6	8'11 8'97	19097 8638	
	Chritogone Rill Tracto.	Batkenya	0.00	071	000 mm	******	*****	000200	*****	2011	NH 011	2°05	4150 4135	73.28	
	Backergunge	Patuakhally	101100	0"72	********	vargos		251000	4+4-0+	1	0.72	3180	8143	D1.HO	
		Burnal Bhois	0103	9'14	P00 003	*****	******* *******	0.08	0.10	1 2	0.12 0.02 0.12	21.7 610 0.00	8 03 8 =3 4 01	76 02 11/10 87/12	

Statement of Ranfall in Bengal for the week ending Friday (8 a.m.), the 2nd of May 1890 -countd.

					2	AINPAL	lo.			T	TAL.		Average	001 - 0 - 2 4	Average
Mateorological Division.	District.	Station.	Saturday, 28th April.	april april.	Monday, 28th April.	Tuesday, 29th April.	Wednesday, 3ub April.	Thursday, 1st May.	Fr day, 2nd May.	Number of recey days.	Rainfall of	Total rain- fall since lat of Aprel.	fold rain fall fram tat of April.	Total rain- fall since 15th May 1889.	rainfall from 15th May to date.
LAT BERGAL		Gonraddi Banpkal	0.12										7		
	Neskholly	Nonkholly Fanny Harsekpore Ramganj	0114	1.70	******		04	1'04	0.42	2 1 2	0156 9168 2174	£186 6 67 6186	8*0* 6 60	91:00 91:00 111:51	317 25 217 57 1
19	Furredpore	Madaifpore Purreedpore Goniuudo	0°14 0°10 0°29	1'10		080 00 0-1-1-0 107	810-01 10.050	9°62 0 14	0:70	8	1196 0193 0163	7:18 8:40 6:02	6:16 3:34 6:3n	7-11-87 711-516 (D. 110	18:83 4: 43 Dr. 00
	Daggh	Munchigunge Dacea Naramgunge Manuchaware Joydebpore	0°44 0°16 0°23	0°04 6°03 0°03	******	**************************************	000 000 00 000 00 000 00 000	1°05 1°65 1°64 0°09 0°09	0°02 0°11 0°03	1 4 4 8	1107 1105 2 13 0105 1122	7:58 7:58 7:12 0:74 7:60	8:81 4:24 8:50 6:24	85 30 93 11 93 14 77 14 76 02	79-99 97:54 99:27 87-93
	iiill Tipperal- lipperah	Agartola Compila Chandpore Brahmunheria Ramchandra- pure.	0.19	0.03 1.2. 0.03		61.00 60 == 1 158406 650=66 632=66	0.14	0.84 0.04	1'14 1'14	1 5 4 3	0:50 0:60 5:40 6:20 0:04	7:07 8:.0 6 as 4:48 3:36	6°13 8°16 6°10 8	83*23 66*16 73:39 80:16 65*03	73 23 86 66 85 97 73 50 V
۵.		Nasirnagar Daudkandi Kasha Lakeham	0°00		*****	****** ****** ******	001101 241000 100 -pc	1.43	0.67 1.75	Nii 2 1	Na 0:66 2:10 1:75	13:809 1:74 3:53 6:17	?	85°87 85°43 86°63 76°50	2 2
	Nymeraingb	Kinhornatina- Atin (Tangati- Mymetisting). Jame Lives . Netry & ona Subornakhali, Purgapine . Sherepure Town Becompany	0°53 0°30 0°30 1°40 0°40 1°07	00FFFF	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-0 120 0:2 	01000 01000 010100 010100 010100 010100	0.12	1'49	N11 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17 0 0149 177 Nil 015 174 040 110 030	6 12 5 99 7 11 5 39 7 11 4 34 10 35 6 34	8.70 3.00 4.73 3.12 8.50 9.70	77.93 74.06 14.7.12 16.44 136.46 90.21 60.60	70.79 61 va 81 va 70 da 81 25 1
Nonta	Pubas	Pubna	0 88 . 1'27		184 44	1000144	99.5×4.6	500,00	89111	3	0°66 1 27	5.20 5.20	314H 8191	83150 60144	89103 85140
Buscat.	Hogra	Shorepore Nowknilla Boma Panchbibi	1'40 1'55 0'55 1'69	19.000 19.000 19.000	0811231 081124 101111	0 0.01 0.0-001	407 14 00074. 451.24	414444 ********************************	******	1 1 1 1 1 1 1	1'49 1'25 0 56 1'85	3.04 3.04	1°40 2'72 2'72 1'30	65178 67142 7514 70100	61:61 8 × 64 65:00 50:33
34	Kajshshyo	Nations	0°16 8°35 0°16		0.63	**************************************	-0200e -000.s, -0100s -0100s	96076+ 44+744 49+44 666+44	0.10	1 2 2 1 Nil	010 258 071 018 N	3135 611 1164 4 17 0 51	1 45 2:54 0:76	42100 67 04 831 1 441 02 46164	88:09 60:05 787:08 9
	Maldab	Maldah Clanohal Gajal	0.36	#00 cm -9-50 	#00x0.	140000 014000 141 41	7810E> 1210E 1210F	0	******* *** *******	84	Nil Nil	0.46 (1.33 (1.40 (1.78	1'05 1'30 ? P	51°27 20°19 40°19 52°56	84'00 89'04 1
	Пізацімрого	Mohadelipore Cluramon Engunge Hungenore Hultonelint Thakoorgaon	3°74 0°72 3°92		100000 100000 100000 100000	000000 000000 00000	000 000 - 500 000000 000000	######################################	0.53	\I	0192 Nil Nil 1154 0172 1192	0 77 0 12 0 35 5 6n 1 7 6 2 60	1'24 0'83 1 65 2'07 1'63	84°89 81°84 82°82 21°81 63°41 90°40	88 99 84 32 60 63 66 96 53 43
	Виндрого	Bnawanigunar (Gyahanda).	1.09	60000	005+4+	03.0	980300	800000	10144.	2	1 85	\$:30 2:35	3 24	93'60	68°65
		Kumpere Kumpram Bagdowra [Nilphamaric.	0'45 0'45	******* ******	0.03	*****	000 and	000m0	981100 980000	2 1 1 Nii	0186 0145 0141	5°17 2°21	5:01 6:00	77:46 9# 79 90:70 83:77	81-15 90'9 <b>3</b>
	Julpigoree	Julpigores Atspore Door Fallacutts Deligant Rhayatpurs	1:22 0:03 0:7 0:03 8:43	### + 01 ### - 01 ## - 1- ## - 000	027	0.03	000000 000000 00000 0000 0000	000000 000000 000000 000000	**************************************	1 1 1 1 1 3	1:22 0'05 0'50 0'50 8:73	6°21 9 25 7°20 2°42 6°01	4185 / ? P	125080 125 57 130 02 8038 14624	12576
	Cooch Bebar Darjeeling Hill.	(Naurakatta). Dillings. Cook Behar. Makdigunra.	071 0 28 1/21 (73) (73) (73)	0'03	0°15	0.01 0.01	000000 000000 00000 00000	457 923 133 76 140 83 147 84 147	078	NII 3	0.75 0.26 1.24 N:1 0.40 1.74 0.85	6'85 10'45 4'44 9'73 7 48 5 14 5 00 3 44	6187 8124 6106 6107 9146 6100 6100 6100	108 71 156 47 126 54 127 88 1800 5 120 16 125 41 147 70	103:38 100:74 110:04 110:05 110:34 110:07 110:24 89:07
Menta Banab	Parnesh	Kurmoug Kumungo Araresh Purumah Ganduara Ralarumpure	0°83	*****	₽70 	0.05	**************************************	000 000 000 000 000 000 000 000	**************************************	NII NII	0:63 Nii Nii Nii Nii	0.10 0.47 0.42 1.88	2*** 1 == 2***1	03.27 20.50 103.03 25.15	73:76 60:67 64:17
	North Bhagul- pore.	Mattori Kalcayoni Maddapura Sonjimi Protabyani	1'87	111 44 111 44 111 44 111 44 111 44 111 44 111 44	######################################	000000	980 000 90 4 0 0 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00****	141807 141807 141807 141807	NH NH NH Nh	NII NII NII NII	Nil 8:10 0:10 0:07 1:01	1:25	63°71 68°00 4 89°17	81124 83106 83106
	Durbhungs	Tajpure Justinuaga Nadiunani Indere	141444 2144 101444	001000 00000 00000 00000	200 200 200 200 200 200 200	95. 495 45. 64 59449 48445	4 - 4:48 1 4 × 5:50 - 26 4 7:40 40 6:50 4 40 6:50 4	000 100		No.	Nii Bil Nii Nii Nii	Nil u to u to u to var Nil Nil	6748 0776 1710 2	40°02 50°47 64°10 70°05 £6°65	44 27 47 3 46 27
	Mosufferpore	Aitmerhi Bezuferparo Haisporo Haisporo Haisporo Haisporo Haisporo Papri	000000 1: 10 0:0: 10 0:0:00 12:00 12:00 13:00 13:00 13:00 14:00 15:00	0.07	0'14		**************************************	990111 990111 990111 990111 990111 990111	200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200	NII	2001	0:87 0:04 Nu Nu Nu Nu Nu Nu Nu Nu Nu Nu Nu Nu Nu	1.08 0.01 0.58 1.	45'09 45'09 42'09 47'39 41'02 47'78	45°89 47°01 46°15 2 2

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 2nd of May 1890-coneld,

					2	BAINVAL	L.			Tor	AL.				
Meteorological Division,	District.	Atation.	Saturday, 26th April.	Sunday, 27th	Menday, 25th April.	Tuesday, 20th	W-dnesday.	Thursday, 1st May.	Priday, 2nd	Number of	Rainfall of week.	Total rain- fail dince lat of April.	Average total rant- fall from 1st of April.	Total rain- fall since lath May 1680,	Average rainfall from late May to date.
NORTH HEHAR - concluded.	Chumparun,	Hothari Buttinh Bagaka Burkuras	0168	0': 8	0.03	.41	**************************************			Nil Nil 3	NII 0'71 0'01	N11 N11 0'71 0'31	0.88 1.18	78:53 82:09 71:45 81:94	48*41 80:16 P
NOUTH BREAK	Sarus	Gopakunge sowan Chuprah Buzar Delirue Bhalooah Sassoram Arrah Mehaniah	0*18	0.03	000000 -ugt+000 -000000 	60 60	00000 00000 00000 00000 00000 00000	100 - 00 - 00 - 00 - 00 - 00 - 00 - 00	600400 600999 60009 000408 -00 6 150000 010000 010000	Nil Nil Nil Nil Nil Nil Nil	NII NII NII NII NII D'19 0'03 RII	NII O'UB NII NII O'UB O'O3 NII	0.38 0.38 0.30 0.11 0.23 0.30 0.30	85:73 64:63 60:90 47:74 63:02 20:43 30:43 46:68	43100 4300 43
6	<b>Оу</b> в	Aurungabad Gya. Nowadab Jehmabad Arwal Isanda agar Sherrahati Rajauli PakriBarawan	6.03	44			**************************************	100 mm	****** ***** ***** ***** ***** *****  ****	Nd Nd Nd Nd Nd Nd Nd Nd Nd Nd Nd Nd Nd N	0:16 NII NII 0:09 NII NII NII	0:16 Nil Nil 0:00 Nil Nil Nil Nil	0°26 0°35 0°37 0°18 ?	88'78 40'20 81'72 33'77 34'66 26'00 19'20 17'24 81'90	48°56 43°56 41°46 43°00
	Palme	Patus Divapure Belar Barrh Bickras	7600. *P011; 40007 40000 *EN161	0°01 0°08 0°18			20010 60010 61 70 61 70	480.42	000014 000000 010100 010100 010100	Nil Nil Nil	0.01 0.08 Nil Nil 0.18 Nil	0°01 0°05 0°10 Nil 0°75 2011	0°25 0°25 0°19	81*68 45:59 41*30 30*03 44*23 35*04	45°01 48°03 43°11 60°77
	Monghyr	Bogooserai Mounty: Jamui Gogra Sheikpura Bhagulpore	10111 10212 101-1 101-1	**************************************	440,94 640,949 103,13 660,13	198 00 188170 10111	22.00 22.00 23.00		00000\$ 45000\$ 450000	NII NII NII NII NII NII	NO NO NO NO NO NO	0.43 0.01 Nil Nil Nil	0:45 0:46 0:83 1	46°18 41'78 30'38 50'19 45'33	47 (4) 47 (5) 44 (6) 1
	pore	Banka Koly-up Bangaon	***	** * *****	**************************************		201.07 181 - 241.08	PRE 1.54 10.004 PRE 2.04 10.004		No Nii Nii	NII NII NII	0°08 2°45 Nil 0°35	, 0.00 5	40:93 46:97	45.31
	Ronthal Por- gunnals.	Bujmehal Godda Pakour Nya Doomka Dooghur Jamara Mohagama Nonshet	0.04		**************************************	## 45 ## 45		100 - 100 MP	parent weeps assert assert assert assert assert assert assert assert assert	Na Na Na Na Na Na Na Na	NII O'OR NII NII NII NII NII	0.78 0.03 1.21 1.32 0.40 0.51 0.70	1 '37 u 55 0 '59 1 '20 0 '96 0 '75	60 72 49 77 70 04 58 43 41 28 46 17 86 65 87 63	04/11 46/16 36/19 7.20( 65/9) 80/30 80/30
CHUTIA HAS-	Hanaribarh	Pachamba (Giridi) Hazaritan't	1741				11191	*** **	100000	Nil	Nii Nii	Nil	0.42	80°34 49°81	43.10
		Hemisgurali Mahud, Hill a Jhoomra Hillis Barks Chatra Karagdaka Ramgkar							######################################	NH NH NH NH	No No No No No No No	NO NO NO NO NO NO NO	0.13 b.13	86°98 45°40 32°03 47°09 40°00	48700 48723 01 40
	Loharduggo	Lohardugen Ranchi Fula now Sells Balumat Hossernabad Gurwah	0*16	0.413	1700		**			Nil Nil 2 2011 Nil Nil Nil Nil	Nil Stiff Nil Nil Nil Nil	NII NII 0'18 NII 0'02 NII	0.29	46'78' \$6'23 35'30 84'20	87/94 84 93 64/7/ 8 9
1	Singbhoom	Chychasa Chakradhar- pore. Ghiteilla	****	0.04		******		pg. F84		1	0.00	Nti 0'04	0.73	90°43 40°88	5.8416
	Manhhoum .	Bakeregure	2007 1917 to	0124	23.10m 200.11	- 40 · · · · · · · · · · · · · · · · · ·	*****		******	Nil	0'24 Nil	1:86 Nil	0'93	62:50 67:37	
		Got milpere Maghungth- pers. Barrahhnom Jasida Chus	***		****	6000-4		000 mgs	**************************************	NII NII NII NII	NII NII NII NII	0'03 NII NII NII 0'38	0.03 0.04 3	46°82 60°38 60°38 60°48	47 83 7

Replacation. - Indicates that no rain has failen. If the raturn for any day has not been received, the corresponding space is left blank. If any of the raturn

CALGETTA, the 6th May 1890.

SUMMARY OF THE METEUROLOGICAL AND BAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, THE 2mp OF MAY 1890.

Weather has been more settled during the present week than for some time past, the only days when rain fell, beyond very scattered showers, being the first day of the week and again towards the end of the week in East and North Bengal. The most noticeable feature of the weather has been the very low temperature which prevailed on Saturday and Sunday, the 26th and 27th of April, which commencing in the north-west on the 26th gradually apread over the whole province. Some very low temperatures were reported from Behar on the morning of the 27th, from almost every station on the 28th, and from Sibsagar, Silchar, and Chittagong on the 29th Pressure has on an average again been below the normal, but

not to such an extent as during the previous week

On Saturday the 26th the low-pressure area which had been gradually moving in an easterly direction was over the Sandheads, and as it had a widely extended influence on the wind circulation, giving westerly winds over the whole of Behar, and a cyclonic circulation at the head of the Bay, the abnormal temperature which was then commencing in Behar must Pressure was rising rapidly, but there was still a moderately have been due to its influence. large defect at the head of the Bay and at eastern stations. Temperature was falling, but was above the normal except in the west of Behar at some stations of which large defects had was above the normal except in the west of Behar at some stations of which large defects had already appeared. Scattered showers fell in all districts, and with the exception of the Maldah and Dinagepore districts, general rain fell in North Bengal. On Sunday the 27th pressure continued to rise very rapidly in Orissa and briskly to rapidly over the western half of the province. Pressure was lowest in East Bengal, but the depression had almost disappeared; westerly winds, however, were blowing over the whole of Bengal and Orissa, and showers of rain fell in East Bengal and the eastern districts of South-West Bengal. On Monday normal conditions recommenced; pressure was falling briskly, but the distribution was very nearly Rain practically ceased, a few scattered showers falling in South-West and North Bengal. Very low temperature then prevailed, but a rapid rise was setting in. During the remainder of the week very nearly normal conditions prevailed. Pressure oscillated about the normal; temperature was generally 2° to 4° above, and the wind circulation was what usually obtains at this season. The weather in East Bengal was slightly unsettled on Thursday and

Friday, showers and a low temperature generally prevailing.

Pressure—Has been, on an average for the week, everywhere below the normal, except in Behar and Chutia Nagpur. The largest difference is about a twentieth of an inch at some of the stations in East and North Bengal, but generally defect was not over two-hundredths

of au inch.

Temperature.-As stated above, temperature conditions were very abnormal in the early part of the week. On the 27th, some of the minimum temperatures registered were Chupra 61°. Arrah and Hazaribagh about 66°, and Dehree, Buxar, and Bhagulpore about 67°. On the 28th. Darjeeling reported 41.7°, Purneah 63°, and several other stations under 65°, while over almost the whole of Bengal temperature on the night of the 27th was under 70°. Defect amounted to ten or fifteen degrees at some stations, but it rapidly disappeared, and there was generally excess after the first two days. The means for the week are very nearly normal. In Chutia Nagpur there was defect of 3°, in Assam and Orissa excess of 1.5° and

1º respectively, while in the other districts excess did not exceed a few tenths of a degree.

Rainfall.—Frequent showers fell in the early part of the week in East and North Bengal and in the eastern districts of South-West Bengal. From Sunday till Thursday there was a period of dry weather, after which showers again commenced in the eastern districts. Over the western half of the province very scattered showers fell, and many districts have been rainless; these are Monghyr, Bhagulporc Sonthal Pergunnahs, Hazaribagh, Manbhoom, Moorshedabad, and the greater part of Orissa. The mean falls for the large subdivisions are East and North Bengal 0.8 inch, South-West Bengal 0.8 inch, North Behar 0.05 inch, and the other districts one or two-hundredths of an inch. Rainfall has been everywhere deficient.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 2nd of May 1890:—

					TEN	PREAT	THE					1	LAINP	ALL.				
			T week.	wook.	Aven	nges c	r week.	above or		O1 we	ok.	B	ainy d	aye.		e lat		on 1866,
METRORO DIVIS		142	Bighest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week below normal mean of	Average.	Mormal average.	Variation.	Average number in week,	Normal average num-	Variation.	Average.	Normal average.	Average.	Hornal aversas.
Orison	***	001	118'6	68'6	98-2	78'6	86'9	+10	0.01	0'88	-034	01	079	-0:8	0.81	1'66	6673	10.00
South-West Ber	agal	864	109'4	66'2	97'9	76'4	87-8	+07	0'81	0'84	-0168	0'8	27	-010	1108	2'81	88 06	80'77
Bast Bengal	100	200	9816	6519	9016	74'0	8213	+0'6	0'70	179	1'00	1%	2'6	-018	3'45	4185	84106	8877
Forth Bengal	000	841	80%	64'7	97.6	71'8	81'7	+0.3	070	1"18	-0:36	1'0	81	-11	8.71	8.93	77 57	78-01
Worth Bohar	min	8.0%	14373	80:9	66.1	78'8	88'8	+0"8	0106	0165	-0.40	0'3	1'0	-07	0.23	0.97	60'02	50'97
louth Behar	***	944	100'4	8613	9816	74'5	8*80	8*4	10.0	0*16	-018	0.3	0.7	015	0.81	0.40	6478	45'19
Ikstie Nagpur	000	940	100.2	06:31	96'7"	73'5"	83 6°	-3.44	8163	0.13	-0.00	073	016	-016	8'96	9.46	46'16	81'54
Legan	000	-	9216	60:8	\$810	71'8	76'3	+1'5										

<sup>\*</sup> Obyebases not included.

METBOROLOGICAL OFFICE, BENGAL; The 6th May 1890. C. LITTLE,

Offg. Meteorological Reporter to the Gost, of Bongal,

# Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of April 1890.

				Inches.	Date.	Hour.
The mean pressure of the month		***	***	29.735		
The average pressure of April from				29.752		
The highest pressure in the month		***		29.957		10
The lowest pressure in the month			***	29.484		-
The range of pressure		000	* * *	0.473		. 10
ruc rango or pressure	***	***	***			
The total number of hours of bright	onnehine	during th	e month	Hours. 239 7		
The maximum possible number of h				378.9		
Tite maximum bossing names of p	ours or so	Manimo		_		
The mean temperature of the month				9		
			***	85.8		
The average temperature of April		-	registers	84.7		
The highest temperature in the mon		•••	***	105.6		
The lowest temperature in the mont		0 0 0	0.0.0	67.2		h
The range of temperature during the		000		38.4		
The mean daily range of temperatur		000	000	18.6		
The greatest range of temperature is	one day	444		30.1	28th	
				For sont.		
The mean humidity of the month		000	400	71		
The average humidity of April from	24 years			69		
the money among or expension	3000			00		
##1	48			Inches		
The mean vapour tension of the mor	th.	***	***	0.859		
The average vapour tension of April		ars' regis	ters	0.861		
The mean cloud proportion of the m		***	***	2.46		
The average cloud proportion of Apr.	il from 18	3 years'	registers	2.63		
The total rainfall of the month				Inche.		
The total rainfall indicated by a Beel	elenie eelf	maniatania	***	1 00		
				0.00		
gauge (mouth of the gauge about			ground	0 93		
The average fall of April from 48 ye	ars regin		000	2.81	01.	
The greatest fall in 24 hours		***		0.96	21st.	
The number of rainy days in the mor	th	0.0.0		Days.		
The average number of rainy days			Wears?	0		
registers	-	HOM P		8		
tegratora	***		0.00	0		
			24	$\Theta$		
The mean maximum equilibrium tem		of solar re	adiation			
during the month				149.7		
The mean difference of sun and air to	smperatur	188		54.6		
The greatest sun temperature				155.8	14th.	
The greatest excess of sun over air te	mperature		* 5 0	59.8	20th.	
The mean temperature of the nocture	al radiati	on therm	ometer			
11 1 1				72.4		
on woollen cloth	3 5.0 0	on therm	ometer			
The mean depression of the nocturn	al radiation					
The mean depression of the nocturn	uro at 4	feet abo	ve the			
The mean depression of the necturn below the minimum air temperat	ure at 4	feet abo	ve the	4.3		
The mean depression of the nocture below the minimum air temperat	ure at 4	feet abo		4.3		
The mean depression of the nocture below the minimum air temperate ground  The greatest depression of the nocture	uro at 4  nal radiati	feet abo	ometer		let	
The mean depression of the nocture below the minimum air temperat	uro at 4  nal radiati	feet abo		7.0	1st.	
The mean depression of the nocture below the minimum air temperate ground  The greatest depression of the nocture below the minimum air temperate services.	ure at 4  nal radiati ure	feet abo	ometer	7:0	lst.	
The mean depression of the nocture below the minimum air temperate ground  The greatest depression of the nocture below the minimum air temperate.  The mean movement of the wind per-	uro at 4 nal radiati uro day	feet abo	ometer	7·0		
The mean depression of the nocture below the minimum air temperate ground  The greatest depression of the nocture below the minimum air temperate.  The mean movement of the wind per the greatest movement of the wind in	nal radiati ure day one day	feet abo	ometer	7·0 157·4 262·0	1st. 12th.	
The mean depression of the nocture below the minimum air temperate ground  The greatest depression of the nocture below the minimum air temperate.  The mean movement of the wind per the greatest movement of the wind in the greatest movement of the wind in	nal radiati ure day one day	feet abo	ometer	7·0	12th.	1 to 2 p.m.
The mean depression of the nocture below the minimum air temperate ground  The greatest depression of the nocture below the minimum air temperate.  The mean movement of the wind per the greatest movement of the wind in	nal radiati ure day one day	feet abo	ometer	7·0 157·4 262·0	12th.	1 to 2 p.m.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park Street Observatory). The barometer is about 8 feet higher at Alipore, and, other things being equal, reads therefore '008 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.2° lower; and finally, the thermometer which furnished the record of temperature at the Surveyor-General's Office during 20 years and upwards is found to read 0.6 higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

MRTEOROLOGICAL OFFICE, INDIA; Calcutta, the 5th May 1890.

### Results of the Meteorological Observations taken at the Alipore Observatory from 27th April to 3rd May 1890.

			Wind.		erret.	Hvanos			RATURE	Твиги		meter	0 0		1	
Weather.	Rain.	Miles recorded.	Prevaling direction.	Humidity.	Dew point,	Vapour tension.	Mean wet bulb.	Ninimum.	Range	Maximum.	Mern.	Moan pressure bary at 32° Pahr.	Number of hours bright sumbine.	Maximum is sun.	Date.	Month.
	Inohea.			2	0	Inches	0	0	0	0	0	Inches.		0		1890.
Partially cloud	0-01	114	WNW and calm	60	64 4	0.008	70.3	71-6	17-7	89-3	80.6	99 778	8-4	148-2	27th	April
Chiefly ele	Nil	91	W, 88W and calm .	59	65-0	-619	714	67.2	30.1	87.3	82-9	.702	10-5	151 6	28th	
Partially clou	,,	168	88W and 8	66	73-6	-829	77-9	78 2	22.6	100-8	87-5	673	89	153-5	29th	9.5
Chicay clear.	53	80	S, SSW and onlin	70	76:4	-910	79-9	76-7	22-0	98-7	88 3	-685	10-2	152-5	304h	
Partially close	1+	107	SSW, SSE and calm	74	78-5	975	81-2	78-1	19-2	97-3	88-2	671	9-6	150-5	let	May
Partially clou	0.08	138	SSE and SSW	74	78 8	966	81-6	80-1	16-4	96-5	88-6	621	9-5	152-5	2nd	11
Partially clou	NII	289	SSW and 8	60	76 2	-904	79-6	80-5	15-8	96-8	87-6	-610	9-8	149-1	ard	14

				Inches.	
The mean pressure of the seven days		***		29.677	
The average pressure of the corresponding period for	24 Vears	8G.'s C	ffice	29.716	
and attend to be made of the control				Hours.	
The total number of hours of bright sunshine	101	= = •	* * 8	66.9	
The maximum possible number of hours of sunshine	ð		0 = 0	90.4	
				0	
The mean temperature of the seven days				86 2	
The average temperature of the corresponding period	d for 24 ve	Bars. SG.	's Office	85.6	
The extreme variation of temperature			***	33.0	
The maximum temperature				100 8	
				Miles.	
The highest velocity of the wind in one hour			100	18	
				lbe.	
The highest pressure of wind on one square foot	100		Approxima		
and the same of th			-14	9/0	
The mean relative humidity				67	,
The average relative humidity of the corresponding	**	24 veers.	8G.3		
Office	person non	3		71	
	***		•••		
	000			Inches.	
The total fall of rain from 27th April to 3rd May 1		1 000	* 00	0.04	
The average fall of the corresponding period for 24	years, SG	. s Office	0.00	0.77	
The total fall from 1st January to 3rd May 1890	***	***	***	2.13	
The average fall of the corresponding period for 24			B 6 6	5.23	
mean recessive temperature &c. and deduced from	the trease	of the Ro	- damage	and Mile	

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph,

and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet shove the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, d drizzling rain, t thunder, < lightning, a dew, T lunar corona.

J. H. GILLILAND,

For Meteorological Reporter to the Goot, of India.

METEOROLAMICAL OFFICE, GOVT. OF INDIA; Calcutta, the 6th May 1880.

Abstract of the Results of the Barometric and Thermometric Observations taken at 10 a.m. at the Meteorological Office, Chowringhee, in the month of April 1890.

					Inobes.	Dete.
The	mean pressure at 10 A.M during the m	onth	•••	***	29.811	
	mean temperature at 10 A.M. during to highest temperature during the mouth		***	•••	89·4 106·2	24th.
The	lowest temperature during the month		***	•••	68·9 37·3	2nth.
The	s mean daily range of temperature duri	ing the mont	h	000	19 6 29·1	28th.
			me mones	***	·/.	20th.
	mean 10 A.M. humidity during the me		•••	* 0 0	1nches	
	e mean 10 a.m. vapour tension during to total rainfall of the month		***	***	·916 0·75	
	greatest fall in 24 hours	•••	***	•••	0.60 Days.	22nd.
The	number of rainy days in the month	***			3	

J. H. GILLILAND,

For Meteorological Reporter to the Govt. of India.

Merhonological Oppion, India, The 5th May 1890.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 27th April to 3rd May 1890.

		reduced			TRMP	BATURE.			E	l Toronber	BY.	EF.
Morre.	Date.	Pressure at 10 corrected and recto 32 Fabr.	Daily mean.	Mason un.	Range.	Minimum.	Dry bulb at 10	Wet bulb at 10	Vapour tension at 10 4.m.	Dew point at	Humidity at 10	Rainfall part 24 bours.
	!	Inches.	0	•	۰	•	0	0	Inches.	•	2	Inches
April 1800	27th 28th 29th 39th 2nd 2nd	29-845 7-82 -7-86 -7-55 -7-41 -691 -670	82 3 83 5 90 4 88 7 8A 5 80 5 89 6	92-0 98-9 102-0 100-4 99-0 98-1 98-0	19·4 29·1 23·2 23·4 20·2 17·3 16·8	72.6 68.0 78.8 77.0 75.8 80.8 81.2	88 6 89 6 92 6 93 4 93 1 92 6 91 6	72.6 74.5 79.5 81.5 83.5 83.5 82.5	687 652 832 915 1019 1026 989	63-6 66-5 73-7 76-4 79-8 80-0 78-9	44 47 55 68 66 67 67	Nii
									•		Inches.	
•	The mea	n 10 A.M	. press	sure of	the sev	en day			0 0 a	000	29.746	
6	The mea	n tempe	rature	of the	seven d	ьув				100	87.6	
	The extr				erature				***		33.1	
	The max	cimum to	empera	ture	4.0		4 4 4		4 6 6	+ 0 0	102.0	
	The mea	m 10 a.n	ı. relat	ive hu	nidity (	of the s	even d	ays	***	***	°/ <sub>5</sub>	
		l fall of								,	Inches. 0:04	

J. H. GILLILAND,

For Meteorological Reporter to the Goet. of India.

Metropological Overer, India; The 5th May 1890.

#### MEMORANDUM.

The number of deaths registered during the month of February 1890 in 45 districts in Bengal amounted to 112,524, against 124,642 in the preceding month, 96,187 in February 1889, and an average of 98,255 in the corresponding months of the previous five years, 1885—69. These figures correspond to annual death-rates of 20.40, 22.68, 17.52 and 17.88, respectively. It will be seen that the death-rate for February 1890 was 2.28 less than that of the preceding month, but 2.88 in excess of the mortality of February 1889, and 2.52 in excess of the average rate of the corresponding month of past five years, 1885—89.

2. The highest death-rates were returned from the following districts. The rates of the corresponding month of 1889 are also given for the purpose of comparison:—

Districts.

Districts.					Duiricia.				
				lie during-			latio per a		
		-	Pob. 1890.	Pob. 1889.			eb. 1894.		b, 1900.
Poori		800	46.36	 19.44	Dinajpur	601	27:60		26.68
Cuttack	4.01	0.04	34.92	 13:44	Hughli	0.00	27.24		22.30
Noakhali		***	34.66	 27:00	Howrah	***	26.64	400	22.20
Julpaiguri	444	+ 0-0	30.00	 24.60	Baiasore		26.04		23.68
Darjiling	9 4 +		29.16	 21.48	Chittagong	9.04	25.44	0.04	20.38
Backergani	40.	107	27-84	 27.84	Midnaporo	4+1	26.20	198	21.86

3. The following table compares the rates of mortality under the several registered death-causes during the three periods, February 1890, 1889, and the average for that month of the past five years, 1885—89:—

•					katio per milie duri	ng-
				February 1990.	February 1880,	Mean of previous five years, 1865- 89
Cholera	***	2 4 4	***	1:44	184	.96
Small-pox	***		499	.13	-12	·10
Pever	460	***		14.84	12.73	18:08
Bowel-complaints				.72	-48	.00
Injury	***	* * * *	***	-13	·12	18
Other causes		000	***	3.13	8.00	276

The only noticeable point indicated by the above figures is that cholera and fever were more fatal in February 1890 than in either of the past periods with which that month is compared.

4. The districts in which the greatest loss of life occurred from cholers and fever

MGEO	des					_			
	Ci	plera.				Favor.			
			1	Ratio per melle				1	tatio per melle.
Poori			2.84	10.50	Julpaiguri	0.10	0.0.4	900	28-44
Cuttack	400		e de ta	7.56	Noakhah	0.0 :	* * *	***	26:40
Faridpore		999	101	4.99	Dinajpor	4 0 0	***	2 + 4	26.16
Noakhali	44 *	44.0	0.00	4.44	Rungpore	+ 4 =	8.0 1		23.78
Tipperah	** *	0.0 1	0.00	4:08	Darjiling	***	***	***	23'04
Howrah	***	111		8.60	Rajshabyo	000	0.04		20.04
Midnapore	000	* * *		3.24					
Dacca		00 +		8.00					
Backerganj	***	9 Ø A	1100	2.64					
34-Pergunnaha	***	9 = +	0.00	2.40	1				

Small-pox and "Other causes" prevailed with marked severity only in the Poori district (mortality 2.88 and 20.28 per 1,000 of population respectively).

5. The mortality of the month, according to sex, class and age, was as follows:—

According to Bez.	According			A	coordin	g to A	90.	
Males 22-46 Remaies 18-48 Ratio of male deaths to every 100 female deaths calculated on the proportion		20.62 20.62 20.62 20.88 31.36 13.44		der 1 y	roar ler 5 ye 10 , 15 20	ure ,	90.	Ratio per millo 140 76 18 24 8 40 7 68 12 24 13 96
such mortality beers to the total male and female population 121			30 40 50 60 ye	10	40 ,, 57 ,, 60 .,		***	15:48 22:08 33:00 60:96

Detailed information regarding the mortuary statistics of the 45 districts in Bengal dealt with in the above summary will be found in the statement appended.

> W. H. Gunso, Dip. Publ. Health, Camb., Sanitary Commissioner for Bengal.

The 3rd May 1890.

Gr.				DISTRICES.	Berdwan Bankura Erhluss Mdmpore Mdmpore	-	PROSTAL STATE OF SALES OF SALE	TOTAL FOR	-
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		1	POPULATION	4	725,5386 539,618, 412,000 1,218,000 101,560	62.6,97.6	11.00 (20) (20) (20) (20) (20) (20) (20) (2	34,195,834	
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,				Cholora.	842822	1	48 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	8.410	-
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#### MEMORANDUM.

Wiekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 19th April 1890

#### BIRTHS.

The births registered during the week ending with Saturday, the 19th April 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 17 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3.8 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, with the figures below: ride the figures below :-

	1486.	1986.	1847.	1968	1987.	Weakty average of five years	1800.
Ratio of births per 1,000 of the population per annum	25.0	1918	19:8	. 2013	1919	2019	17'0

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population :-

				1	Wunte	BELGER	-					WELLE	ENDING	
	ीं ४० फ्रांकित			29th March 188n.	5th April 1800.	igth April 1899.	19th April 1800.	Ti	uwas.		23th Mar t. 1-90.	5th April 1890.	12th April 1891.	19th April 1690.
Inclwan Indinators It with an Serampere Colorina Howenh Ruh Reshingar Benegitat Sections Removes Removes Desping Dates	d Chineurah	677 677 677 677	**************************************	2616 2617 2517 2518 2618 2613 1615 3618 2019 114 6 2170 1711 3018	25 PA 10 B 23 PA 23 PA 25 PA 10 PA 1	10 7 10 5 26 6 11 8 14 8 15 9 18 9 21 9 1 1 A 18 16 18 16 18 1	30 5 12 8 24 0 37 5 17 8 10 5 22 7 24 0 18 6 18 6	Sarainganj hitts. ong rom-clair Paran Gya Armh Morufferpore burst-anga Chinpa Braznipore Monebyz Purmah Poori			1616 916 931 15 5 1911 2319 1814 161 161 161 1377 2016	2017 417 5011 618 10 4 11 12 11 11 11 11 11 11 11 11 11 11 11 11 11	24 R 13 0 15 1 10 8 12 2 2 0 2 0 14 5 17 2 16 8	41'44 8'33 11'6 7'7 16 4 15'7 16 4 15' 4 15' 21'7 25' 3 24' 2 21'0

It will be seen that last week the highest birth-rate was returned from Narainganj (41.4) and the lowest from Chittagong (2.3).

#### DEATHS.

The deaths registered during the week under review correspond to an annual rate of 29.2 per 1,000 of the population. The rate of the week is 4.3 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years with which comparison is instituted, —vide the figures below:—

	1095.	1896.	1887.	1888.	1889.	Weekly average of five years.	1190.
Ratio of deaths per 1,000 of the population per avnum		22'9	21.9	24'6	9178	2479	3011

The deaths registered in each of the last four weeks in each of the twenty seven towns correspond to the following rates per 1,000 of the population:-

			1	1	Wange'	Ending.	-		1	Wanto 1	MD180-	
	Towns.	0417		gab March 1890.	sth April 1590.	lath April 1948.	19th April 1550.	Towne.	gath March 1890.	Sth April 1864.	12th April 1880.	1985 April 1990.
Hurdway Humapore Humapore Campson Howen Halt Keshnagar Marakhat Santipore Jesane Hampire Be Darjiking Oucca	141 - 144 - 144 - 1	40		2416 3817 777 777 1777 2818 1418 2916 819 119 119 410 119 119 410 1217	27 6 12 6 5 7 8 5 6 7 8 9 5 1 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	32 0 34 1 60 2 51 5 20 3 21 5 24 6 17 0 6 7 6 1 50 6 7 6 1 23 1	2000 2001 65:4 47:1 30:0 21:1 11:4 6:0 5:5 42:8 59:3 18:6	Narainganj (I) discong (Ioonilah Patin Oya Areah Mesufferpare Durtchanea Closes Ithasapore Monghyr Purseau Poori	7:0 48:2 17:5 68:3 16:7 17:0 18:3 11:1 18:9 9:0 34:6	5'3 477 27 0 11'4 79 3 9'4 18'4 17'8 17'8 17'8 17'8 17'8 17'8	4110 9 6 19 7 19 7 18 7 18 1 2 0 2 5 0 8 7	12:00 p d 11:00 p d 44:40

It will be seen that last week the highest mortality occurred in the town of Darjiling (59-3) and the lowest in Santipore (3.5). No deaths were registered during the week in Utterpara town.

Measured by last week's mortulity, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.		Small-poz		Fever.		Other cau	108.	
	Ratio per	R	atio per mille.		Ratio per			tio per uils.
Howrah Dacca	31.2 14.3 9.7 6.4	Poori Howrah	16.8	Darjiling Gya Purneah Arrah Durbhanga Rampore Beauleah	 61.9 37.6 31.2 29.9 22.8 21.0	Serampore Poori Bhagulpore Monghy		19-6 12-6 10-0 9-9

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5 from cholera, against 3.2 per 1,000 in the preceding week; 1.6 from small-pox, against 1.; 14.6 from fever, against 14.7; 2.4 from bowel-complaints, against 2.2; 2 from injury, against the same ratio; and 5.2 from other causes, against 5.8 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:-

According to Sex.

According to Class.

According to Age.

	Ratio per mille.			ntio per mille.			E	latio per mille,	
Males Females Ratio of male deaths to	30·5 27·8	Christians Hindus Mahomedans	***	29·9 30·0	Under 1 yes	5 years	***	36.8	1
every 100 female deaths, calculated on the pro- portion such mortality		Menomedans	6.00		10 ,,	10 15 20 80	***	17.4 11.3 18.0 19.5	
bears to the total male and female population	109		b		10 ., 10 ., 10 ., 10 years and	δ0 ,,	***	19 6 26 2 41 6	
D . 11 1 1 0					10 years and	upwards	000	75.8	

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 5th May 1890.

Sanitary Commissioner for Bengal.

mink 5 5 5 5	Foresis					RIBTHA			1							MORT	MORTALITY		ACCORDING	10 TO						
MANTES OF MUNICIPALI.  Bardwan 18-653  Hathinad Chiest. 15,856  Full. Strampore 18,856		-					.								Dissass	ė					-nac	-aid			Bex.	
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Statemen 18,653		fotal,	Malos.	Permittee	Total.	Stalos.	Foundary.	trud slam 'o otzail ,edrud slamst 001	Cholera.	sod-liams	Povers.	.ednitatemon-lewell	(Sport dimension)	Other diseases.	Cholera.	.xoq-llam8	Povers.	Bowel-compleints.	Injury.	Other diseasors.	Assume the state of the state o	lation per annual	Malon	Femalos.	**************************************	ob olam to ottail elemen not yrevs out no batalustes
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FAR. Serapore	16,683	23,500	02	6	oj	9.0	10-8 16-6	3	gen	65	00	:	-	100	1	10			: 5	2 6	2.08	1.75	2 4	200	0 5	E 3
Serapore	18,520	23,637	10	10	3.6	16.4	9-76 2.9	9	2	91	=	gest			38	66	18:1	1			0.00	-	1			
L Librarysams	12,987	28, 66	13	10	97	5.52	11 8 37.3	216	:	į	10	10	:	90	99		100		;	, 0		7.6	3 2	3 3		
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Kiehnasar 13,263	14,314	27,677	Į»	10	25	13.2	9.8 88.7	.2	:	:	- 103	:		-			-		•		7	2		_		
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ì	5,460	8,498	94	-	80	12.2	1.9	birth.		:	90	-89		-		1	-	: 5	i	: 4			_		0 0	
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:	\$2,605	43,465	()-ta	40	82	4.0	P-97 09				8	¥	:		4	:	100		;	-				21.	3	<del>-</del>
Mosufferpore Mosufferpore 23,084	10,658	62,743	10	0	910	1.0	7.87	•	:	) 6 5	16	) ;	:	_		-	3	io io	0	70		0.21	33	10		7
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TOTAL 6 637 154 75 46 57 21 25 57 57 65 65 65 65 154 155 156 176 176 176 176 176 176 176 176 176 17	,	1	:	8		,		•	*			_				173	100	ļ=		10		6.9	8.50	í		832.0	19.1	6.0	99	114.6
				3	156	1	:		-		1.	1 -	!		1=	B	12	8			1		3 97			18.0	5.61			9.34

#### OIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 3rd May 1890, as compared with the corresponding week of the previous year.

			Mank Br	ED MAY 1890.	AT, THE		DING SATURD FIN MAY 1880.	
Natura	SP CAUGO.		Number of bunts,	Wearht of	Tollage,	Number of bosts.	Wolshit of	Tolings.
de la servicio			No.	Mds.	Rs.	No.	Mds.	Ra.
Rice and paddy Juse hirewood Other articles	900 000 001	90 ·	189 32 79 681	40,165 23,980 34,176 1,97,926	560 428 527 2 468	163 1 77 695	42.585 200 31,475 1,17,670	601 3 463 1.801
	Total		186	2,96,206	3.983	776	1,91,930	2,866

### Weekly Return of Traffic Receipts on Indian Railways.

#### EAST INDIAN RAILWAY.

Auprocumute Return of Traffic for week ended 28th April 1899, on 1,526} miles open

	COACRIF	TRAFFE	€.			FAND MINI	C SE A	,	Other ear	nine		late bases			TRAIN-MIL	me Ruy,
	Number of passenters.	Recet	ols.	Weight carried.		Renoup	la.	į	(estama)			lotal mare	unge,	Conching.	Merchan- dise,	Total.
		Re	An P	Mon.	n.	Ma.	h . 7	,	Ma.	A. P		Ra.	A. P.			
Total traffic for the work .	966,121	2:00,06:1 lwi	8 n	18,15,782	10	6,90,129	5	6	20,0°6 13	D 0		10,61,419 636		68,3514	104,4231	172,777
For pravious 16 weeks of balf-	4,118,742	46,90,8.4	2 0	4,50,50,289	0	97,88,738	11	0	3,17,435	0 9	1	1,47.66,757	13 9	1,046,7511	1,532,128{	2,576,893
Total for 17 weeks	4,353,863	49,80,640	7 0	4.40.05,071	ţu	1,04,49,05	0	0	3.85,344	b b	1	57,68,176	0 9	1,115,106	1,636,554}	2,751,460
Companison								í			-					
Intal for corresponding week of provious year Permile of callway correspond-	278,3041	2,81,771	3 5	30,39,008	\$11	6,46,437		8	21,217	11 6		9,49,436	D 9	66.542	102,877	169,119
ing week of previous year.  Total to corresponding date of previous year.	6,817, <b>830</b> k	51,91,678		4,74,56,500	0	1,05,30,474	3	2	2,78,774		+	,57,59,025		1,123,867	1,643,809	2,767,374

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

Racutri	ra Por WREI	E REDIEM	LBORIE 20	70 POR WARE PR APRIL 180	driving 0,		RECEIPTS PROPRIET TO 21 APRIL 1889.			PRIL 1890 TO 2 APRIL 1890.		Total	Total
Mean . mileage wareed,	Receipte.	Par mile worked	Mean militare murked.	Receipts.	Per mile worked.	Mran mileage worked,	Total receigh	for mile worked per week,	Mean militage worked.	Total receipts.	iter mile worked par work.	1890.	decrease to
1,8284	Ro. 9,49,627	fts 622	1,925)	Ro. 10.01,418	Es.	.,628	Re. 30,04,045	Ra.	1,9284	Ra. 35,90,539	B.s.	Rs.	Rs. 64,438

#### PATNA-GYA STATE BAILWAY

Approximate Return of Traffic for week ended 28th April 1890, on 67} miles open.

	COACHING	PRAFFI	C.	Maschar	PRAFI		*****	- 1	Other samu	n uz n	Total cartings.	THAPPIC '	PRAID-MILD	202
	Number of passenters.	Recor	pta.	Weight carmed.		Resul	pta.		(notimated	).		Coach ag.	Morehan- dise.	Tota.
		Ma.	A. P.	Mpe	. 6.	fta.	Δ.	P.	Bo. A.	P.	Ro. A. P.			
Potal traffic for the week Or per mile of ratiway	13,318 ±184	6,764	0 0	87,084 1,015		4,408		3	40 K	3	10,800 7 0 188 14 7	1,492	908	1,304
Por previous 16 weeks of half-	215,186	1,10,418	15 0	7,75,850	214	48,649	6	0	617 7	0	1,59,676 19 0	27,0n6)	11,145	58,141
Total for 17 weeks	226,481	1,16,782	15 0	8,33,540	0	83,043	8	0	651 12	0	1,70,486 3 0	28.498)	12,047	40,545
COMPASISON.														
otal for norresponding week of	12,472)	5,450	6 B	75,011	20	3,536	5	0	21 0	8	8,976 9 11	3,097	767	Z.894
or mile of railway correspond-	214)	94	14 8	1,323	10	61	10	8	0.6	10	185 14 11	*****	*******	86×4.0
provious year	246,014	1,35,192	7 8	6,96,602	20	41,965	13	0	1,378 0	0	1,77,000 4 8	39,783	11,460	48,110

Approximate Statement of green receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Liopartment Circular No. XXI, Railway, duted 23rd July 1883

	THE FOR WEEL IS		RECEIP 20	TH APRIL 180			L RECEIPTS PRO PRIL 1869 TO S APRIL 1869.			Pair law to M Arkir law		Total	Total
Mean milesre worsed.	Bassipin.	Per mile Forued	Hons: mirage versed	Receipts.	Per mile worked.	Menti micage worked.	Total receipts.	Par mile worken per week.	Mean mileage worked.	Total recorpts	Per mile wirked per welt,	inormae in	derreas H
671	Ba. 8,977	ita.	87)	Re. 19,500	Ro.	87]	Ro. 20,000	Rs.	87)	Ra. 61,886	Ro. 183	Ra. 1,882	Ba.

#### TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week anded 3.th April 1800, on 23! miles open.

	COACEIR	G TRAFF	IC.	Munchar	TRAP		ERAI.	Oth	OF GRE			inte		TRAPPIC	TRAIN-MIL	do Rux
	Number of passessers.	Rocei	pts.	Weight		Recei	its.	(0	otizzon (	ed).	erres	SA SAGE	8.	Conching.	Merchan- dise.	Total
- A		R	l. A. P	Mps.	8.	Be	A. P.		Ra.	4. [	. 1	le,	A. P.		1	
Total traffic for the week	20, 172		13 8	14,10	5 0	672 31	11 0 3 11		10	2 7		0 E	8 0	848	86	90
. 10M	358/410	96.749	4 0	2,34,05	30	7,001	11 0	]	167	8 (	1,04,8	18. 1	2 0	14,185	1,002	25.96
Total for 17 weeks	378,462	1,02,817	6 0	2,41.18	30	8,33+	6 0		177	5 (	1,11,3	10	1 0	15.498	1,767	16,01
COMPARISON.				1												
Total for corresponding week of previous year	21,1 40)		16 6	11,366	0	431	8 0			14	,		6 6	997	61	20
fotal to corresponding date of	++=+4-	344	9 3			19	6 6			3 (	31	14	3 1	0.000	241.04	0,000,000
provious year	400,256	1,06,054	8 6	1,62,975	1 20	5,891	11 0	~	318	3 (	1,15.00	16 I	6 6	25,000	1.046	16,74

Approximate Statement of gross receipts of the Turkessur Branch Railway, propared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1888.

	Total	int tor trit	engripto puo Liu 1890 to Ri April 1896,	TOTAL	n lar	PRILIPP PRO PRIL 1880 TO 27 APRIL 1880.	TOTAL		TO FOR WEEL			TOR WERE	
decrease state.	increment in 2000.	Par mile worked per week.	otal receipte.	Menn milence worked.	Per mile worked per wank.	Total receipts.	Mean mileage worked.	Per mile worked.	Receipte.	Mosn nellenge worked.	Per mile worked.	Reneipts.	Mean milrage worked,
ite	Ma,	Ro.	Ra.		Bo.	80.		Ro.	Re.	- Hard	Re.	Re.	
0.13	000 ***	306	30,001	203	847	20,000	321	204	6,531	23.9	944	5,878	(3)

#### BASTERN BENGAL STATE BAILWAY.

(Including N. B., Dacca, K. and D., and Assan-Benar Sections.)

Approximate Return of Traffic for week ended 19th April 1800, on 747 miles open.

	COACETE	O TRAFF	IC.	Manonau		e and Min	1844	A.E.	Other on (estima			tal		TRAFFIC	TRAIN-MILE	B SUR.
	Number of passengers.	Conch		Weight carried.		Receip	pts.		includ itemm-b		ONTH	ravita		Conching.	Merchan- dies.	Total.
		Ra.	A. P.	M.206,		Be.	<b>A.</b>	P .	Ro.	A. P.	Ma.	۵.	ъ.			
form traffic for the week Or per more of rankwas For pravious 15 weeks of half-	142,000 199	74,000 by		6,58,190		87,090 117	0	00	10,000 †3	0 0	1,77,70			92,007	20,889	52,630
your	2,408,120	11,78,929	0 0	86,00,920	0	15,77,080	0	0	2,80,034	0 0	*30,45,05	2 0	0	330,956	413.30b	750,108
Total for 16 weeks	2,548,1n0	12,53,000	0 0	91,89,110	0	16,64,709	0	0	8,05,084	0 0	80,98,763	9 0	0	357,821	478,642	832,688
retal for corresponding week of previous year	184,561	64,863		8,22,103		74,972			12,966	0 0				21,335	23,485	45,020
ing period of previous year total to nurremponding date of provious year	185	18,27,997		79,38,146		111		0	1,78,554		28,44,40	-	0	348,786	389,475	783,231

<sup>\*</sup> Audited up to week ending let March 1990, † Excluding steamer sarnings.

#### FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

	to pod werk The april 148			To Pon WEEK TH APRIL 1886			L RECRIPTS FRO PRIL 1889 TO 2 APRIL 1869.			RECRIPTS PRO PRIL 7490 TO 19 APRIL 1690.		Total	Total
Mean milence vorted.	Becalpto,	Per mile worked.	Mean miteage worked.	Receipts.	Per mile enriced	Mass mileagu worked.	fotal receipts.	Per usile worked per week.	Mean mileage worked.	fotal receipts.	rer mile worked per week,	2690.	decrease in
	Ra,	Rn.		Rs.	Re.		Ra,	Ra.		Ra,	Ro.	ks.	Rs.
673	1,51,788	987	747	1,77,700	235	673	4,39,094	217	747	4,40,145	214	61,086	*******

#### BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 19th April 1890, on 125 miles open.

	COACHIN	TRAPPIC		Миненан		AND MI		LAE	Cabone					TRAPPIC	TRAIN-MILI	is avs.
	Number of passengers.	Conclui		Weight carried.		Receip	pts.		Other ea (catima				) a	Coaching.	Merchan- due.	Total
		Ro	A. P.	Mps.	8.	Re.	٨.	P.	Re,	A. P	Ra,	Α.	P.			
Total reaffic for the week. Or per mile of cultury For previous 15 weeks of half-	23,150 186	8,920 72	0 0	30,610		2,390 19	0	0	170	0 0	11,480 9g	0	0	3,738	1.997	5,67
7 MA? 40 100 100 100	417,500	1,46,114	0 0	7,10,230	0	47,121	0	0	733	0 0	*1,98,988	0	0	54,482	28,450	8(2,80)
Total for 10 weeks	661,510	1,55,034	0 0	7,52,75%		49.311	0	0	983	0 0	2,06,468	0	U	18,167	30,387	00,85
GOMPARISON.																
Total for corresponding week of previous year	26,928	9,063	0 0	43,590	0	8,084	0		61	0 0	12,116	0	0	3,679	1,937	5,610
out period of previous year	207	72	0 0	348	0	26	0	0	1	0 0	97	0	0	10000	*****	P01104
Previous year	487,542	1,64,522	0 6	887,348	0	48,444	0	0	4,517	0 0	2,13,443	0	0	88,691	30,400	09.171

<sup>\*</sup> Audited up to week ending 1st March 1880.

#### FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

RECEIPT SOT	e pot when	ENDING	197	e por wrek E April 1490			L AMCRIPTO PRO LIESU TO SOTH LIESU.			L BECEPTS PRO . 1890 TO 197H 1890.		Total	Total
Umn miene- warani	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile	Wean milease- worked	Total receipts.	Per mile worked per week,	Mean tarleage worked.	Total recespts.	Per mile worked per wook	facronse in 1890.	decrimee is
196	Ra. 18,110	No. 97	196	Ro. 11,480	Rs.	198	Ro. 36,748	Rat 06	190	Re. 33,966	Ro. 91	Ra.	Re. 1,776

# DACCA STATE BAILWAY.

Approximate Roberts of Traffic for week ended 19th April 1890, on 86 miles open.

	COACHING	TRAFFI	C.		MERCHARD		PIC.		AL	Other care	nim	icn	Tota	1		TRAFFEC	Thatr-mees	CB DIS
-	Number of passwers,	Conchi			Weight parried.	1	Receip	to.		(estimate			on/hits	gra,		Conching.	Merchan-	To
		No.	Δ.	P.	Mps.	6.	Ro.	Δ.	P.	Re.	<b>A</b> .	P.	Ra.	Δ.	P.			
fotal traffic for the week	13,900	\$,460 63	0	0	17,000 110	0	1,270	0	0	180 2	0	0	0,1-00			2,480	694	
or previous 13 weeks of half-	967,420	90,901	0	0	3,99,070	0	38,488	0	0	2,406	0	0	*1.81,649	0	0	30,188	10,469	-
Total for 16 weeks	277,310	96, 161		0	4,16,150	0	30,834	0	0	2,386	0	0	1,15,806	0	0	38,811	11,476	8
COMPARISON.																		
ntal for corresponding period of previous year	12,303	4,289		0	22,606	0	549	0	0	85	0	0	8,023	0	0	3,479	623	
or mile of railway corresponding	144	30	0	0	147	0	B	9	0				8.9	0	0	******	laces ;	
previous year	254,001	78,030	0	0	1,90,000	0	16,381		0	2,004	•	0	96,505	0	0	300,000	10,716	4

<sup>\*</sup> Audited up to week ending let March 1890.

# FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Racmy2	TO FOR WESK TH APRIL 18	RRDING 89.		e FOR WEST			. RECRIPTS PRO . 1889 TO 20TH 1850.			. RECEIPT= PAG L 1890 To 1971; 1890.		Total	Tita.
Mean mileage worked.	Receipte.	Per mile	Mean nilease laorked.	Receipts.	Per mile work-d	Maan mil-nge goeked.	Total recaipts.	Inst unite worked per week,	Menn milesge worked.	Total rec-ipts	Per nule wors not per work,	increase in 1889-90.	doornan g 1886-20
	ite.	Ro.		Ra.	Re.		Ra.	Ro.		Re.	Ra.	Ro.	Re
86	2,028	, 18	86	6.9/0	. 81	06	16,148	8.8	96	20,640	60	6,492	949 h-man

# NALHATI STATE RAILWAY.

Approximate Return of Truffic for the week ending 26th April 1890, on 272 miles open.

	COACMIN	o TRAFI	HC.		Marchar		PPIC.	) H	BAI	Other ea	minter A	. i	Total	1		TRAPPIC	TRAIN-MILI	lo Brd.
	Number of passengers.	Conch			Weight carried.		Roger	pla	· ·	OGLIBAT			PBPIIII)			Coashing.	Merchan-	Test
•	i	Re.	A. 1	r.	Mrs	в.	Ita.	Δ.	P.	Re.	۵.	P.	Ra.	٨.	P			
Total trade for the week Or per mile of railway For praymon 15 works of half-	3,23± 119	1,124	8		7,798	0	854 30	0	0	17 1	0	0	1,686	0	0	\$n0	254	1
7m7	51,964	200,61	0	0	2 15,368	0	12,996	0	0	1,407	D	0	32,996	0	0	7,990	7,796	13.3
Total for 16 weeks	56, 96	19.766			2,23,160	0	13,400	•	0	1.494		0	34,000	0	0	(1,438	8,6189	18
COMPARISON.				-		1												
or provious year	2:794	1,000	0 1		6,843		600			,	0	0	1,460	0		800	204	1
as weak of previous year	103	30	0	0	100	0	16	0	0	00102	P	-	56	0	0	101 **	10000	
esal to corresponding date of	\$6,937	21,403	0 (	0	1,98,781	0	11,406	0	0	1,484	0	0	34,038	0	0	8,607	7,757	16.9

# . FINANCIAL YEAR.

Approximate Statement of grove receipts of the Nalkati State Railway.

	S FOR WESE			M POR WREE M APRIL 186		TOTAL	APRIL 1889.	OK 107 CB		RECEIPTS PEC PRIL 1890 TO 2 APRIL 1890.		Total	Total
Mean moved.	Reserbts.	Por mile worked.	Mean mileade worked	Receipts.	Por mile worned.	Mean milicage worked.	Total receipte.		Minus milnuse worked.	Total receipts.	l'et mile worker per week.	increase in layout.	dectes in 1896-2
	Ba.	Bo.		Ra.	Re.		H4.	ite.		Re.	Be.	Re.	D.
371	3,609	84	87)	1,695	. 69	878	6,200	84	876	0,666		64	£ 11,000

# TIRHOOT STATE RAILWAY.

Approximate Return of Traffic for the week ending 26th April 1890, on 273 meles upon.

	COACHEN	o Thappi	ic.	MARCHARD		AND MIN	EE.	A.L	Other		Tota	2		TRAPPIC	TRAIN-MIL	m nes.
	Number of passongurs.	Conclip		Wought carried.		Beceij	ptg.		Other on: (entima)		en Pilli			Coaching.	Marchan- due.	Total.
The state of the s		Ra.	A. P.	M De.	ø,	Ra.	٨.	P.	Rs.	A. P.	Ba.	٨.	æ.			
Total traffic for the work	66,977 165	16,071	0 0	2,30,625 845		36,807 96	0		2,948	0 0	46,728 164		0.	5,422	7,400	13,313
her breatons to accura	768,297	3,09,261	0 0	41,31,551	0	4,71,826	0	0	49,178	0 0	H,90,766	0	0	F1.205	162 561	233,460
Total for 16 weeks	703,274	3,26,232	0 0	45,61,170	0	4,94,183	0	0	82,130	0 0	8,76,491	0	0	N6,710	100,401	947,161
Comparison.															- 2	
to the corresponding week	44,483	15,741	0 0	1,96,488	0	17,560	0	0	3,797	0 0	87,098	0	0	6,53G	6,171	10,707
Per min di ranway correspond	168	- 58	0 0	720	0	66	0	0	1	0 0	128	0	0.0	*****	177.60	1/2700
ing week of previous year fotal to corresponding date of previous year	784,606	2,75,100	0 6	23,80,093	0	9,96,888	0	0	56,240	0 0	5,58,177	0	0	90,456	92,471	163,427

<sup>\*</sup> Steam-boat carnings are excluded in calculating "Total carnings per mile of Ratiway."

# FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Tota	Total		PRIL 1990 TO SS APRIL 1990.		ne Lori	RECEIPTS PRO BIL 1889 TO 271 APRIL 1889.	TOTAL	eyding W.	re for week re April 189	iluoni Pi	THDING	TO POR WERE	RECEIP 27
1890-01	1800-91	mile worked per week.	Total receipts.	Mean mileage worked.	Per mile worked per week.	Total receipts.	Mean inileage worked.	Per mile worked.	Recurpts.	Mean mileage worked.	Per tune worked.	Receipts.	Youn g.leapr worked.
- BA.	Re.	Re.	ito.		Bo.	Ma.		Re.	Bo.		Ba.	Ba	
******	87,874	168	1,83,672	273	134	1,40,798	273	171	46,726	973	188	57,080	273

[REGISTERED No. 29.]

No. 20 of 1890.



# The Calcutta Gazette.

WEDNESDAY, MAY 14, 1890.

# OFFICIAL PAPERS.

Non-Subscribers to the GAZETTE may receive the SUFFLEMENT separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Post.

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RULES FOR CONTROLLING THE TRANSPORT OF EMIGRANTS TO THE LABOUR DISTRICTS OF ASSAM.

GENERAL DEPARTMENT.

Calcutta, the 17th April, 1890.

# RESOLUTION.

THE rules sanctioned last year under Bengal Act I of 1889 provide for the inspection of places of accommodation for emigrants in the mofussil, but no reference is made in them to the buildings maintained for that purpose in Calcutta. In practice, these have been considered as subject to inspection by the Superintendent of Emigration, and it seems to the Lieutenant-Governor to the adviseble to recognize this arrangement by rule.

the Superintendent of Emigration, and it seems to the Lieutenant-Governor to be advisable to recognize this arrangement by rule.

2. The importance of regulating the railway journey was recognized from the first, and great improvements have been introduced with the consent of the railway authorities. It is now considered expedient to give to these arrangements the force of rules, particularly as that course has been adopted with regard to emigrants registered under Act I of 1882. Where the precautions it is now proposed to adopt are more detailed, it has been deemed advisable, for the sake of conformity, to amend also the rules under Act I of 1882.

3. The Lieutenant-Governor accordingly proposes to issue the following rules, any objections to which will be considered on the 28th May next :-

Rules to be issued in addition to the existing rules under Act I (B.C.) of 1889.

18. The daily despatch of emigrants by train shall be previously arranged for by the forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending to

a cooked meal, and for those started at or before that hour a dry meal instead, consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the agent for distribution to the emigrants for consumption during the journey.

during the journey.

20. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake the journey by such officer. The medical officer will report any breach of rule 19 which may

come to his notice.

21. When despatching emigrants by train, the purest drinking water obtainable shall be supplied by the agent in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. Emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

22. Emigrants about to travel by train shall be accommodated in third class carriages specially reserved for them, or in suitably constructed goods wagons attached to passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

23. The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Hooghly-Naihati route.

24. If cholers occurs on the journey by train, the patient shall as soon as possible be removed, by and at the expense of the railway authorities, to the nearest cholers hospital or other suitable place for medical treatment; and particulars of the case, furnishing name of emigrant, batch to which belonging, and depôt from which originally despatched, shall be forwarded by the station-master to the officers concerned.

5A. It shall be the duty of the Superintendent of Inland Emigration to inspect places

of accommodation provided for emigrants in Calcutta.

Rules to be substituted for the existing Rules 64, 65 and 69 under the Inland Emigration Act, I of 1882.

64. The daily despatch of emigrants shall be previously arranged for by the contractor or forwarding agent with the railway authorities concerned, so as to prevent overcrowding by the securing of sufficient carriage accommodation for the whole number of emigrants intending

65. The contractors or garden sardar shall provide ar emigrants started on a railway journey after 9 A.M. a cooked meal, and for those started at or before that hour a dry meal instead. consisting of bread or biscuit and sugar in the proportion of one pound of bread or two large biscuits and one ounce of sugar to each emigrant of and above ten years of age, and half the above quantities to each emigrant under the age of ten years. Also, if the journey between two halting stations is likely to occupy more than six hours, bread or biscuit and sugar in the same proportions shall be given by the contractor or garden sardar for distribution to the emigrants for consumption during the journey.

69. When a medical officer has been appointed by Government to examine emigrants, no emigrants shall be put into the train without being inspected and passed as fit to undertake

the journey by such officer.

When despatching emigrants by train, the purest drinking-water obtainable shall be supplied by contractors or forwarding agents in a sufficient number of suitable vessels conveniently placed with the emigrants in the carriages. In the absence of latrine arrangements, emigrants shall be afforded opportunities for leaving their carriages at three selected watering-stations between Sara and Parbutipur, one-third of the carriages at a time being emptied to admit of the station latrines being used and of additional supplies of drinking-water being obtained.

Rules to be insued in addition to the existing rules under Act I of 1882.

Emigrants about to travel by train shall be accommodated in third class carriages that are specially reserved for them, or in suitably constructed goods wagons attached passenger trains only, and the number in each such carriage or goods wagon shall in no case exceed the regulation number.

The train journey of emigrants under conveyance from recruiting districts direct to Dhubri or to Goalundo shall be performed by the Houghly-Naihati route.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN.

# Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week suding the 10th May 1890.

2	ia.	District and return		d	Rainfall at Sudder Station in inches.	
BEN	IGA	t.				
		Western D	istriol	0.		
1	1	Burdwan Culna Cutwa	May :	10, <b>'9</b> 0	Nil 0:41 0:40	Weather—hot and occasionally cloudy and windy. Agricultural operations impeded for want of rain. Prospect of til and sugarcane sot good. Prices of common rice:—
			,			Burdwan 18 Culna 15 Cutwa 15 Later to per rapos.
	2	Bunkoora	00	10, '90	Nil	Weather—very hot. Fields are being prepared for rice sowing. Cotton being gathered in the Bishonpore subdivision; outturn 10 annas. Other standing crops doing well. Common rice 20 seers per rupes at Sudder and 18
BURDWAR DIVE.	8	Birthum Rampore Ha		0, '90	Nil 0-12	Weather—hot. Nothing to report as regards crops. Prices range from 16 to 20 seers of common rice per rupes.
2	*6	Midnapur	90	0. '90	Nil	Weather—hot. Rain wanted for ploughing. Prices of common rice:
and a						Budder 18
180						Contai 20 { per rupee.
1	1					Tamluk 17
	5	Hooghly	]	0, 190	2011	Weather - sultry with high winds from the south in the evening. Rain wanted The sugarcane crop is estimated at 12 annas. Prices of common rice: -
						Sudder 14 Scrampore 16 Jehansbad 16
		Howreb	** 1	0, 190	Nil	Bere paddy reaped with about 4 annas outturn. Rain wanted for ploughing. Common rice 12 seers per rupes.
1		Control Die	triota			Continus red as sedie just supple.
1	6	24-Parghs.	May I	3, '90	Nil	Weather-very hot. Sowing of early rice and jute going on, but rain very much
T DIVE.	7	Nuddea Chuadanga Meherpure		0, 90	0.08 0.11 0.15	wanted. Bugarcane doing well. Price of common rice stationary.  Weather—very het. A severe storm at Nowpara in the Kushtes subdivision.  Sowing of early rice going on, but retarded in some places for want of rain.  Rain very much wanted.
THE PERSON	8	Khoolna Satkhira	., 1	0, <b>'90</b>	1:02 0:11	Weather-very hot. Cultivation going on in the Sudder subdivision, but more rain wanted in Satkhira. Resping of boro nearly completed.
	9	Jessore Jienidah Magura Nazail	., 1	0, 190	NII 0 54 0 57 1 10	Weather-very hot with occasional clouds and strong south winds. Sowings of paddy, jute, and indigo continue, but more rain wanted.
1	10	Moorshedahad Lalbagh Jungipore	., 1	0, 190	Nil 0:80 0:06	Heat above normal. Rain much needed for bhados sowings. There has been a little bhados sowing in the Jungipore and Sudder subdivisions.
-	11	Dinagapar Thakurgaon	., 1	0, '90	1·75 6·81	Weather—changeable. Prospects of crops continue good. Prices of rice both at Sudder and Thakurgaon stationary.
	12	Rajabahye Nattore Nowgong	- ,, 1	o, 'vo	N i! 0-85 1-52	Weather—hot. Clouds passing to and fro and rain expected. Jute sowing continues. Ploughing for winter paddy going on. Prices stationary.
CANE.	18	Rungpur Kurigram Nilphameri	,, 1	0, '90	3·52 1·65 0·89 8·62	Weather—extremely sultry with westerly winds. Prospects generally favourable. The young paddy is coming up magnificently. Jute sowings are daily progressing.
DAJBRAR IL	16	Guitanda Boges Sherpur Nowkhilla	., 1	0, '90	0.88	Weather—sultry, and sometimes stormy. Sowing, of one rice and jute going on, but in most places finished and seedlings doing well. Jute sown over about 9 annas of the usual area. Common rice solling at 18 seems per super.
	16	Pubna	., 1	o. '80	Mil	Weather—not. Sowing of paddy and jute in the Serajguage subdivision finished. Crops on low lands doing well. Sowing continues in other parts.  Price of common rice 13 to 14 seers per rupee.
	16	Darjesling	1	0, '90	0.73	Weather—fair. Crops doing well. In Terni bhadoi paddy, jute, and sugarcane are still being sown. Prospects generally good.
-	17	Julpagoree	ss 1	u, '9u	0.38	Weather—hot and sometimes cloudy. Sowing of bhadoi paddy and jute progressing rapidly. Prospects satisfactory. Prices stationary.

	N		nd date of are.	Rainfa at Sudd Station inches	ter Character of the weather and state and prospects of the crops.
	BEN	GAL—sepoluded.			
46		Eastern .	Districts.		
	1	18 Danca	May 10, '90	Nil	Weather—very hot and fine. Slight rain in Manickgunge and Munshigut Sowing of rice and jute going on. Bore paddy nearly harvested. Come rice sold at from 18 to 16 seers per rupee during the week.
	DAGGA DITE.	19 Furreedpur	., 10, '90	vil	Weather—hot. Joli dhos is being reaped with an average outturn of 12 am State of standing crops fair, but rain badly wanted. Price of common a varies from 18 seems in Sudder to 16 seems in Gualundo.
8	DAC	Backergunge	,, 10, '90	Mil	Weather—hot and cloudy. Prospects of crops generally fair, but in some pla want of rain is much felt. Common rice selling at from 12 to 16 seers rupes.
	1,	Mymousingb	,, 10, '90	0-08	Weather very hot. Strong wind blowing at present. Prospects of ergood. Common rice cells at 13 seers 10 chittacks per rapec.
DIVE.	1	Chittagong	,, 10, '90	Nil	Weather—hot. The chilly crop is excellent. Sowing of one paddy is in p gress, but leds worm (probably the mole cricket) is reported to be appeared in themsels Patis, Hathasari, and Fattickchurry. Price of r
Carragone Dive.	.2	Noakbolly	<sub>20</sub> 10, '90	Nu	Weather—very saltry. Sowing of and crop going on. Rain hadly need About 12 annas of rubbi crop have been gathered. Price of rice stational
Calvera	24	Tippersh	., 10, '90	0-03	Weather-unusually warm. Rice, jute, and fil thriving. Prospects gos Rain wanted.
	21	Chittagong Hill Tracts.	,, 9, 90	0.87	Weather—very hot throughout the week. A heavy shower of rais on the ?  Jess burning still continues in some places, where it was retarded by ra  Gathering of tobacco and chillies still continues. Sugarcans doing we  Common rice being sold at 13 seers 52 chittacks per rupee.
BH	HAB	Hill Tipperah	\$ 000 S	•••	Report not received.
	26	Patne	, 10, 190	NII	Weather-hot and dry; west wind prevails. Prospects of chases and other ere standing on the ground favourable, but rain will do good. Prices rising.
	27	Gya	,. 10, '90	Nii	Weather-hot. Prospects of chases and sugarcane favourable. Prices of footgrains almost stationary.
	=	Shahabad	,, 10, '90	Nil	Weather—very hot with west winds. Harvest of cheese proceeding. Sugar cane being irrigated. Standing crops good and prospects favourable.
	20	Durbhunga	., 10, '90	Nn	East wind prevailing. Threshing of rubbi nearly over. Paddy, mung, as indigo doing well, but rain much wanted. Prices rising.
	80	Mosufferper	10, '90	Nil '	Wind changeable, bost considerable. Rain very much wanted. Paddy, much and obsesse still being sown in places.
	81	Sarun	10, '90 I	NEL 1	Weather—hot; wind variable. Indigo prospects indifferent except in the nort and west. Cheens good,
	32	Chumparus	" 10, °90	NI THE	Weather—hot. Paddy is being sown. Cheene and hade growing, but wan rain Preparation of land for sowing of bladei crops going on. Opini weighment almost finished.
1	33	Monghye	, 10, '90 I	AH A	Weather—very bot and dry; wind variable. No crop to report on. Rai urgently wanted for the preparation of lands for bhadoi crops. Prior almost stationary.
-	34	Bhagulpur	" 10. '90 ž	Fil V	Weather—very hot; winds easterly. Sugarcane and indigo doing well. Wan of rain retards cultivation of bladoi. Rain badly wanted.
	36	Purnoab Kissengunge	As mak and	0-96 W	Fanther - bot with easterly winds and also cloudy. Jute, augarcane, and blade crops being sown. Hain, which is wanted, would be beneficial to the crops generally.
	36	Maidah Chanchal Gajole	045	0-82	Venther—hot and oppressive; evenings cloudy and windy. Harvesting of bor paddy continues. Sowings of bhadot and winter rice going on. These crops suffering much for want of rain. Prospects of other standing crops fair. Prices of common rice stationary.
	87	Southal Perghs.  Pakour  Rajmehal	100	611 E 0-45 0-07	ant wind at first; now westerly wind. Weather hot and acasonable. Slight rain in parts, but more wanted everywhere for sugarcane and to assist agricultural operations. Bore paddy being reaped in Rajmehal. Price stationary.

	No.	D'Atriot a		Rainfall at Sudder Station in inches.	
OR	1884				
i i	1 88	Cuttack	May 13, '90	Mil	Ploughing going on, but with difficulty for want of rain.
ORISSA DEVE.	89	Pooree	, <b>9, °9</b> 0	Nil	Weather—hot. Lands are being manured for the ensuing eared crop. In the Sudder subdivision harvesting of dalus crop nearly over, but still continues in the Khoorda subdivision. Price of common rice stationary.
	40	Balasore	,, 10, '90	Nil	Weather—very hot and dry. Cotton and sugarcane doing well. Dules rice being harvested. Hain wanted. Number of coolies on relief work: 136.
¢B(		NAGPORE.	or Agency.	a.	II. Ogra
	41	Hazaribagh	May 10, '90	Nu	Weather—seasonable, very hot. Sugarcane and mange doing wal! Mobus has yielded from 8 to 12 annas. No other crops.
NACPORE DIVE.	43	Lohardugga	,, 10, '90	Nil	Weather—hot and seasonable. Mohus gathering nealy finished. Sugarcane and mange doing well. Rain wanted for ploughing lands for early paddy. Prices stoudy.
CROPA NASP	43	Singbhoom	10, '90	Nil	Weather-very hot. Surgreane thriving. Mango and moless yielding well.  Nothing else to report on. Prices steady.
	44	Manbhoom	,, 10, 90	NO	Weather—very hot and close. No crop on the ground except sugarcane.  Knowi lac has yielded a full crop. Rice selling at from 18 to 26 seers per rupee.

Published for general information.

CALCUTTA; REVENUE DEPT., The 13th May, 1890. P. NOLAR, Secy. to the Goot. of Bengal.

STATEMENT SHOWING THE STOOKS OF RICE IN AND AROUND CALCUTTA.

18   18   18   18   18   18   18   18	Il a secondario					Brook	IN MAPD AN	COMPILED 65-						
1,14,140	The state of the s	fat week .f May 1899.	of June 1869.	ist week of July 1889.		9	frid work of Oct. 1899.		1st week of Dec. 1889.	ist west of Jan. 1800.	lai week of Feb. 130e.	of Mar. 1800.	100 unet of April 1896.	of May 1886.
11,000		Môs.	Mds.	Mite.	Mds.	Mds.	Mds.	Mde.	Mds.	Mde	Mda	MA		
1,180	1		7,67,800	6.73,000	7,32,700	8.62.000	B.04.000	4,64,000	0.00.000	9 00 000	-			
1,000	in adapted in		98,000	98,660	78.700	22 000	71 900	67 400	-		ana 'ma'	0.21.100	16.10.400	14,94,00
1,180.00   1,180.00	iftener, Golsbare, Promer- fooly, Hashiner, and Oning		6,34,500	0,30,400	6.57,700	8.74.sec	6,74,100	*****	8,56,000	B. De. 6+10	6,18,300	20,00	6,01,000	8,57,80
1,10,000   1,10,000	Mittentation Posts, and		8,500	E 000	8,600	4,00	9,00	6,000	A.000	4,600	8,	8	3	-
13   14   15   15   15   15   15   15   15	i - Kapate, Chellah, Kidderpore,		1,18,700	1,08,700	1,10,700	75,500	66,500	005'59	86,100	86,750	96,100	3,11,100	1,91,00	1
State	Minut Buara (setimated)	8,40,680	8,44,000	1,60,00-	1,66,000	2,40,000	8,40,000	6,46,000	\$,40,000	8,00,000	8,48,000	8,48,000	2.00.000	
Stratego   Stratego			1,00,000	\$10,000	8,00,000	8,66,000	B.00,000	6,49,000	8,50,000	8,86,000	2,54,000	2,44,000	2,00,000	3
The column   The	Anthribity, Newshiererge, art. Usugine.		10,029	10,986	18,117	14,388	15, 28	12,410	14,680	10.00	19,606	8	81,195	3
Control   Cont			81,44,188	22, 90, 504	\$1,50,917	18,28,165	14,14,300	17,5,810	16,13,080	15,00,075	18,48,468	80,00,00	88,77,876	PLOLO
	Personal Per	A SA	June 1s. o.	July 18-9 . July 18-9 . Lost E. co. Juny 18-9. Er. Juny Fr. Juny Chet fo. Arc.		(en Sey Beyl, 19-9) (19-6) (19	(or 3rd Out. 1389. ; 555 (sib io 3ab.) Out. 1880.) Out. 1880.)	14.011  Sov. 1-49.  (100 by 200  (100 by 200  Nov. 1-49.  (100 to 200  Eor. 1882.)	(on articles) Duc. (isra) The Control of the Contro	(en 3rd Jan. 1891.1 6641 (End to 4rl. Jan. 1901.1 Jan. 1900.1	(on part (195, 195), 195	(co. 3rd) Mar. 1800) (list to 3rd Mar. 1800) (last to 3rd Mar. 1800)	24,996 (Con 37d, 1280-) (Car to 3rd, 480-) Api. 180-) (180 to 3rd Api. 180-)	May 1880
for 178 latter 116 latter 150 latter o latter ob latter 75 latter 75 latter 75 latter 150 latter 15		27,00,007	8 CL.060	39,59,500	80,00,078	25,65,330	18,97,914	17, 81, 968	25, 0, 248	17,50,430	87,0,30	80,00,00	80,00,786	N B
P. NOLAN,			of late	444 91	176 ballo	o late					atra tu	SALE OF	150 Ballo	स्यश
	STATISTICAL DEPAI	STREET, 90.										Boor. to	P. NOLA	

# Results of the Meteorological Observations taken at the Alipore Observatory from 4th to 10th May 1890.

			Wnrp.		BTRT.	Hygnon			LATURA	Temper		noter	8			
Waating.	Rain.	Miles recorded.	Prevailing direction.	Hamidity.	Dew point,	Vapour tension.	Mean wet bulb,	Minimum.	Range	Maximum.	Mean	Mean pressure bare at 32" Fahr.	Number of bours bright sumbine.	Maximum in sun.	Deta	Month.
	Inches.			%	0	Inches	0	0	0	0	0	Inches.		0		1890.
Purtially cloud	Nil	205	SSW and SSE	72	78-6	0-978	81.2	80.6	15-2	95-8	89-0	89-654	94	148-7	6th	May
Chiefy clear.	0.0	141	SSW and SSR	71	78-2	-967	81.4	79-6	19-1	98-7	89-5	677	10-0	151 5	5th	*1
Chiefly clear.	1,	125	SSW and SSE	69	77-9	-958	81.4	79-5	227	102-2	90-1	-600	10-4	188 -7	0th	11
Chiefy cloudy.	90	120	SRW, SSE and variable.	69	77-6	-946	81-3	80-0	23-8	108-8	90-3	-509	8.2	154-5	7th	<b>0</b> .7
Partially cloud	ps	107	SSW and WN₩	61	73-7	132	79-1	80-4	25 0	106-4	19-8	*485	9-0	157-8	8th	1)
Partially cloud	Po	260	88W and 8	72	79-2	1998	82 2	80-6	17-2	97-8	89-8	-641	9-2	151-6	9th	48
Partially cloud	20	182	SSW, 8 and variable	68	70-8	-879	80-0	82.1	20.8	1024	91-0	•587	7-0	154 2	10th	41

				Inches.
The mean pressure of the seven days				29.579
The average pressure of the corresponding period for			60	29.683
	,,			Hours.
The total number of hours of bright sunshine		* * * *		63-5
The maximum possible number of hours of sunshine	• • •		***	91.2
and maximum possible named of nones of sunstitute			***	C
The mean temperature of the seven days			***	90.2
The average temperature of the corresponding period	for 94 ves	m 8 -G 'a		85.2
The extreme variation of temperature			• • • •	25.9
The maximum temperature	•••			105 4
and an analysis of the same of		***		Miles.
Who highest relegion of the mind in one have				20
The highest velocity of the wind in one hour	6.00			lba.
The highest pressure of wind on one square foot		A -	proxima	
The present bressure of wind on one sdayle 1000		Д	phoxima	o/o
The many relative hymidity				68
The mean relative humidity	noticed for 9	I was a R	G.	00
Office	periou for 2	Acete 10.		74
Olikoe	- 0.0	•••	* * *	
				Inches.
The total fall of rain from 4th to 10th May 1890	***		+ 9.0	Nil
The average fall of the corresponding period for 24 ye	ears, BG.'s	Office		0.93
The total fall from 1st January to 10th May 1890	***	***		2.13
The average fall of the corresponding period for 24 years	ears, SG.'s	Office	***	6.16
moon processor tomperature &o are deduced from t	he traces of	the Barog	ranh an	d Thermore

The mean pressure, temperature, &co., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the They are exposed under a thatched shed open at the sides, and are suspended four feet Kew Ubservatory. above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly

at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

J. H. GILLILAND,

For Methorological Reporter to the Goot. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Valoutta, the 12th May 1890.

# Meteorological Report of the Proving

									81	DITA	M OH	BBRV	TIONS					-
					ATB	Panent	ub.				TRMP	RATUE	n.		Hvm	DITT.	Oz.	OUD.
	DISTRI	UT.	Representative	Highest, 5 A.m., harmster read- ing of month.	Lowett, S.A.E., narcips let read- ing of month.	Nean, 8 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Highest of menth.	fowest of month.	Mean daily mati-	man tempera-	Mean daily tem-	Variation from	Mean, 8 A.M., humsdity.	Variation from	Mean cloud amount, 8 a.M	Variation from
	Beene		A 1 /2 A	29.044	29:644 29:656	811-21B	\$0:459 \$0:450	 -:007	02.7	84°6	B4-4	79°8	#315 . RETR	0	87 82	_	8.8	-
	Posree	100 100		29 961	20'631	20 612	20.7994	010	94:0	720	60 to	78 5	81.8	+0'3	77	-18	19	+1
1	Cuttack	100	Cuttack	. 20°002	29'870	29 737	201832	+.004	107.5	72:3	101'8	76:7	9018	+0.9	81.		014	
6	Balasore			291987	29.92	29*753	191513	- 007	95.7	73.0	91.3	8017	8510	+07	79	-13	6.2	+
	South-West Mand South 34	-Pergu	Saugor Island										and a	4.010			110	
	Midnapore		1	291809	20'479	311-659	39:810	'007	113 4	64'2	10917	76'6	80°7	+0.1	75		179	
	24-Pergunnahe, and Hooghly.	Howse	Calcutta .	29 '049	39.009	237792	31.914	-°006	160.4	67 3	9813	76'5	85 B	402	"	-6		1
il	Burdwan		. Burdwan .	291650	29'510	29 69 1	29.793	050	10817	67*4	100%	7616	8918	+08	70	0	8.6	+
	Hankoora	\$65 P	. Bankoora .	29.028	29:311	29:478	29*780	- 1009	1117	67.6	10:18	76'1	89.9	+0.8	67	-	179	-
	West Burdwan Beerbhoom	sv4 -41-	Banigurge .	29:639	19 283	291473	201807	-1803	110'7	689	10216	76'3	80'4	+0.3	68	-	216	
	Moorshedabad		Berhampore .	291915	29 551	291725	29:796	-1013	10817	66 2	99.1	74'7	8619	0.4	83	+10	418	1
	Nuddes		Krishnagere	29 9:7	19'060	20764	191807	+1004	106.8	1.6.3	100 0	75.3	87 6	+81	78	-	3'4	
1	Jessore and Eh	oolna .	Jessore	29-986	29'604	29.784	29'818	011	190'8	68.9	96 0	76'0	8616	-012	85	-8	4.0	1
1	Chittagong	400	. Chitragong .	29'923	291640	19:785	20'870	- 1011	31.8	0970	85'7	7611	8314	+014	81	-7	3'4	-
-	Chittagong Bill	Tracte		29-965	291634	29.427	29.830	+1003	94:3	671D	01.0	75'8	83.5	+0'1	83	_	3.5	
	Backergunge	***	22 . 1.1 . 11	90-068	29.653	29'831	201675	4.002	90.0	06:9	0817	78 9	81'3	-1'4	81		1.9	
4	Noakholly		m 4	29 943	19:613	201796	29 336	003	93'8	65 9	90 0	76'3	82 0	-210	85	-	4'2	
	Furreedpore		Danne	29 977	29 634	29 511	191834	1003	9816	60 1	9118	73'2	6316	-1:0	83	4	66	
	Duqos Tipperah		0 . 11.5	29 973	3A. 632	201820	19 836	0	97:3	64'4	92'6	72'9	82.8	+015	77	-	4'6	
1	Mymensingh		Mymenningb	::- 591941	50.611	29 781	20/841	+.0fn	95.7	617	87'4	71:6	8015	-1'\$	86	-	6'6	
-	Ворги	500	Bogre	29 '919	201568	(ES) 735	27'893	+*012	1 #51	69.1	94'9	72.3	8318	-1:8	78	-	5'8	
1	Pubna		Serejgunge	29'962	29.389	29*770	191617	802	9819	64.5	91.2	753	81.D	-8.1	86	~	6.6	
i	Rajshahye	994	Rampore Beat leah.	29 914	19'884	29:750	\$9.801	1001+	104.0	66'7	87.3	עיבי	8617	-0.9	80	-	2.7	1
4	Maidah	200 1	. Maldeh .	29'911	29:348	20'7:8	\$91810	+ '0719	106'8	62.4	97'4	71-7	84'4	0	74	-	8.0	
1	Dinagoport 0	100 .	. Dinagepore	EU BAT	29'855	19:702	29.624	-1006	106'6	62 2	54.0	10 6	6914	-0.0	75	-	5'6	
	Rungpore	*** *	Rungpore	29 896	29.846	29'710	20-837	+'015	102.8	63.8	92.0	70.1	81'4	+1'3	18	-	1.0	
į	Julpigoree and Bellar.			29:780	22'848	22.861	25/8/15	- '018	97'0	63 p	88'5	49:4	78-3	0	78		97	
	Darjeeling Hill			25'872	29.806	29 061	291800	+ '010	105'8	88.2	WG-8	70'1	83.4	+1'6	64	+11	27	1
1	Purneah and Bhagulpore.	Bort	n Furness .	29 452	1				1000	000	1 000	, , , ,	40 0			7.0		1
į	Mosufferpore	***								HVELIO		trustwo	orthy.					
	Darphunge	800 4		29'526	20.462	291668	29'790		103.9	min and	96.8	69.7	8814		- 38	+8	145	1
		007 91	· Vhouse	29'765	29*416	29"585	20'781	+ '017	104'8	60.8	97'1	70'9	84 G	+1.0	64		0.7	
-	Harun	aec 1-	Detree	#0:86c	29 317	29.413	291447	+1023	110 9	87'0	10372	75 8	89.9	+20	53 33	_	0.8	
1	Shahabad		huzar Arrah	259 7255	200,402 900,42	30.0°0	20 778	+1007	106'4	6514	1011	76'3 78 U	87'3	+03	41 47	-	1'8	
11	Gyn	*** **	firm.						Ol	oner <b>va</b> !	tions it	toumple	ste.				Н	
1	Patne	000 61	Hankinson	201769	29'416	10.003	29"788	-*004	109:3	68.0	101-1	7319	87'4	+9'8	81	+9	1'5	
	South Bhaguip Monghyr.	ore st	Hhagulpore .	291849	29"481	29'615	29:781	- 001	106:3	67'0	98:3	78'9	83*6	+0.8	89	-	8.9	1
L	douthal Perguni	nahe			29:111	20 256	29788	-:005	107'7	67.0	99'7	24'6	87:2	-0.7	66		1.7	
1		191 24		27:016	27'864	27'805	29'792	'007	104'6	06.3	84.8	78 N	9610	40'8	82	-4	1'5	1
			Runches	27*806	87'570	27:603	291790	1001	194'3	66'4	97'8	72:7	85.3	+0'7	60	-	1'0	
	Singbhoom	*** ***	Chyebasen	29:163	281687	29:046	29.795	+1003	111.8	69-7	106'4	77'0	90.7	+0'5	20	_	1'8	-
	å ontm	500 Ay 6	Sibeagur	Total Local	29:302 21:66	20°653 20°715	201900	0	92'6	6713	81'6 57'0	6715	75:5 78:7	+1'0 -0'H	91 93	+1	7.8	1
		800 Acc.	Bilduar	Mica Marieta	29.004	29 772	zu 679	004	01.9	65'2	b6 7	70'1	75 4	+0'1	87	+8	7'9	13

# Bengal for the month of April 1890.

### Bancors   Bank May 1889.						ß.	REVATION	TRICT OHA	DIS	•		
17.92   58.29   19.95   1003   507   Process				4			LLL.	RAINPA				
17.02   28.29   19.00   1003   207   Poorse   Policy   Poorse	DISTRICT.	Representative		1889.	18th May	Since				Of month.		
George   Course   C		400010710	Normal mean num- ber of rains days.	Mean num- berofraing days.	Variation.	Vormal mean.	8	Normal mean num- berofrainy daya.	Number of rainy days.	Variation from mean,	Normal Bonds.	Mean of 61s- trick.
### ### ### ### ### ### ### ### ### ##	Pooree		8078	108:3	+ 19'86	86'29	77:02	20	875	-0.88	0.08	0.48
	401 40	Outtack	801	06'0	+ 13:40	84186	68166	3.8	110	- 0.68	3106	016
67'85   25'84   -7'91   50'4   50'3   Midnapore   Mi							i	816	1:6	-1.18	1.48	0.80
Section   Sect	nahe	Saugor Island	98-7	106'8	-674	66 73	30'09	8%	9:7	-170	171	0108
66'40   51'33   -4.99   50'3   65'3   Bardwan   Sardwan   Sardwa								8:9	1:8	-174	1106	0.27
Second Second	and Houghly.	Calcutta	100*0	69'9	-0:01	56'37	85 76	40	31	- 0.67	1'94	2:07
Sara	Sordwan	Burdwan	05*2	19'3	-4'98	51.88	46,40	412	810	-0"28	8.16	118
84-35 64-35 -0-15 90-8 810 80-3 Berhampre Moorehedabad Mo	***	Bankoom	80.0	801%	+ 2'89	55'28	87'87	918	2:6	-0.44	1.19	0'78
Second   S	West Burdwan an Beerbhoom.	Ranigungs {	931	90-8	-0.18	64.48	86'30	8:2	2.0	-0%8	1:91	1:18
107-20   119-51   -12-51   185-9   185-1   Chittagong   Chittagong   Chitagong   Chitago		Berhampers	86'8	8616	-0.46	83'04	DE'20	8.0	2.9	+9*68	1.89	3'47
107-20	100 0	Krishnagore	86.0	2510	-0.23	\$4.83	64'80	4'8	410	-0 57	2183	2:28
18'46   86'33   -18'39   110'0   180'0   Demagri   Chitagong HillTracis								8.8	619	-0.15	8.83	8114
Second   S							1	619	8'6	+1'87	2.98	4'30
116 40								6.0	815	-0.03	8168	3'35
68'65   63'38   +5 17   95'9   99'8   Purreedpore   Pure	,				1 1	•		6-2	8.0	+1.10	3.15	4'22
100   100	**** **							4/3	0.0	+1.18	4'86 1'76	5193
03'08	Dagea				1	68.60		7:8	7'3	+1:06	4'88	4'96 5'90
100   100	Tipporah		11176	10814	-16:35	79143	63:08	67	918	-0.39	4:00	6'04
60'09   60'05   +8'76   110'7   85.7   Bogra	Mystensingh		102.3	117'6	+23.13	74 44	98:56	72	7'8	+1'80	2198	5 26
Straigungo	Bogra	Bogra	85.7	110 7	+8'76	60 78	69.69	3.6	4'5	+1'48	1722	3:30
40.25	Pubna	Serajgunge	92 6	116'0	+8184		61:89	8-0	7.8	+1.08	2198	4'01
138   138	Rajahahye	Rampore Beau-	88'8	96 v	+171	\$7.00	68'71	918	43	+3107	1'63	6'98
88'83 89'66 -0'84 87'1 84'1 Dinagepore Dinagepore Dinagepore Dinagepore Dinagepore Bangpore Bangpore Bangpore Julpicoree and Occob Behar.  128'85 117'81 +7'82 117'0 169'0 Julpicoree Julpicoree and Occob Behar.  138'66 186'96 +9'65 162'7 120'8 Darjeeling Darjeeling fill Tracts, Purneah Purneah and North Bhagulpore Mosufferpore Mosufferpore Mosufferpore Mosufferpore Mosufferpore Mosufferpore Darbhunga Chumparus	Maldah		9412	7816	-16'14	86:30	40:35	2:0	2.9	-0.63	0190	0'35
### 1978   117'81   +7'82   117'0   109'0   Julpigoree   Julpigoree and Cooch Behar.     138'86   138'96   +9'65   142'7   120'8   Darjealing   Darjealing fill Tracts.     78'76   61'81   +14'75   78'8   75'2   Furnesh   Purnesh and North Bingulpore.     49'28   48'08   +4'16   74'1   68'1   Mosaffarpore   Mosaffarpore   Mosaffarpore     22'87   60'11   +6'26   60'8   61'8   Darjealing   Durbhungs   Durbhungs     60'12   +6'26   60'8   61'8   Durbhungs   Durbhungs     60'13   +5'80   67'0   56'0   Motihari   Chumparus     60'14   +6'26   60'8   61'8   Chupra   Sarun     60'15   63'86   -8'85   60'0   61'8   Chupra   Sarun     60'16   63'86   -8'80   67'8   61'6   Gya   Gya     87'88   46'88   -8'80   67'8   61'8   Gya   Gya     48'18   46'88   -1'41   71'8   70'8   Shagulpore   South Bhagulpore and Monghyr.     55'20   48'67   +2'72   68'6   68'8   Naya Doomka   South Bhagulpore and Monghyr.     48'86   88'16   -6'50   86'6   85'9   Hasaribagh   Lohartungs     48'80   88'16   -6'50   86'6   85'9   Hasaribagh   Lohartungs	Dinagemore	Dizagepore	8413	87:1	-0.84	39"66	88.83	5.9	210	+0"18	1'11	1190
138'66   136'96   49'65   162'7   120'8   Darjeeling   Darjeeling Sill Tracts.     75 76   61'81   +14'75   75'8   75'8   Purnsah   Purnsah and North     40'38   45'05   +4'15   74'1   68'1   Mosufferpore   Mosufferpore     52'87   60'11   +6'26   60'8   41'8   Durbhunga   Durbhunga     66'11   45'31   +15'80   67'0   56'0   Motibari   Chumparus     60'38   43'85   -3'63   60'9   61 \$   Chupra   Sarun     50'38   41'65   -5'65   61'8   Gya   Gya     87'38   44'65   -5'90   67'3   61'8   Gya   Gya     48'18   46'58   -1'41   71'8   70'3   Shagulpore   South Bhagulpore and Monghy?     55'39   48'57   +2'72   68'6   85'9   Hasaribagh   Lohartugga     48'60   88'16   -6'50   86'6   85'9   Hasaribagh   Lohartugga     48'60   88'16   -6'50   86'6   85'9   Hasaribagh   Lohartugga     48'60   88'16   -6'50   86'6   85'9   Hasaribagh   Lohartugga	Rungpore	Rungpore	85'8	9618	+10.41	70-25	ลมา66	9.2	7.0	+0'28	8183	877
78.76 61'61 +14'75 78'6 75'2 Purnesh Purnesh and North Hagnipore.  49'28 45'08 +4'18 74'1 68'1 Mossferpore		Julpiguree						7'0	11'0	+ 8-20	6'84	7'84
### ### #### #########################								9*8	18'8	+0'85	4:86	8:11
S2'87   40'11   +6'26   69'8   41'8   Durbhungs   Durbhungs   Durbhungs	Bhagulpure.							814	2.0	0.43	1'84	9:71
60-11 -68-31 +15-80 67-6 56-0 Mothari Chumparum								1.0	1'3	- 0'83	0166	0180
### ### ### ### ### ### ### ### ### ##	Chiamanana							1.6	0.0	-0"19	0'77	0.30
### ### ### ### ### ### ### ### ### ##	Harun							1.0	6.3	-0.83	0.39	0105
57-38 44-68 -5-30 67-8 61-8 Gya Gys Gy	Mhahahad	Dehree )	66:7	71'4	-9.00	61'08		0.7	0.0	-0.12	016	0.08
### ### ### ### ### ### ### ### ### ##	Gwa		63.16	67:3	-8'80	46168	87'38	0.8	0.3	0'81	0*25	0'04
68'12 46'58 -1'41 71'8 70'8 Shagulpore South Shagulpore and Monghyr.  55'29 55'57 +2'72 56'6 56'5 Naya Doomka Southall'ergunnake Hasaribagh Linaaribagh Linaaribagh Lonariusga Lonariusga Lonariusga Lonariusga								171	0.8	-0.16	0.80	0'04,
85'50 85'57 +2'72 85'6 85'5 Naya Doomka Sonthall'ergunnahe Sonthall'ergunnahe Hanaribagh Hanaribagh Hanaribagh Hanaribagh Honaribagh Lonaribagh Lonaribagh Lonaribagh Lonaribagh Sonthall'ergunnahe Sonth	South Bhagulpere and		70'8	71'0	-1.41	44'53	49'12	1'6	1"1	4 0*00	0.91	9180
48'66 88'16 -8'50 86'6 85'9 Hanaribagh Hanaribagh Lonaribagh Lonaribagh Lonaribagh Lonaribagh	Monghyr.		Baril	8814	4.9*20	80107	88194	3.0	20	-0.00	073	nrto
60:00 80 86 -4'87 87'8 99'8 Ranches Constitues	Hantribach							1.1	9.0	-6.231	0.39	NII
SUAS AURT -10 86 Teat Day (Kanoneo	1 abardaera		9918 3	87'8	-4'87	80 06	46:00	119	017	-0.84	0.40	0106
	Maghinom m		91.8	100.7	-1/ 85	40'87	20.93	10.0	116	-0.44	0.39	0 28
8 blagger Singbhoom Singbhoom Singbhoom Assum	)	Sibenest	100'3	107*0	-0.45	86:30	49.89	8:9	110	→0 61	9107	0'04

Table of Rainfall recorded at Station

leteorological	District.	Station.	1	2	8	•	8		- 7	8	•	10	31	18	18	14	18	16	17	18	19
B1864	Poores	Pooreo Khurdah		- 4 *	***	**	+0.0	100	499	644 601	100	701	00	***			***		0.00	6-1 6-1	101
		Banpur	1911	414	***		984		401		.43		- 44			100	***	040	***	-6.0	000
		Satpora	-	441	123	004	400		494	***				11=	***		191	***	900	-11	***
	Cuttack	Jacateingpore Hanki	20-7			1	- 600		100		101	24	8-8-b 1-0-1	***	***	***			0'0'9		100
•		Cuttack	1 171			9.84	101	***	114	***	884	224	110	**	***		***		0-21		
		Dharmeelle	994		***	124		***	41	20		.pt1	**** ****		**	071				#0# # -q	
		Salipore	***			101			100		*4.	***	l are		411	.,		***	0.08	517	***
	Balasore	Chandbali	19.8			.,,		4.1	**			* # # # *	200 22.	44-	107		0'82			101	100
		Balasore	177			-	999	194		0.02	101	110	11	0,18	0110			140		404	0-61
		Bartpodah		***			001			0 05	194	101	0.00			141		40+			0'01
DER-WOOT	Midnapore	Contai Saugor Inland	007		**		***	1 100		804	242	***	844			4**	100 ×		181	104 Pp.1	
22000		Tumlook	160	10.0	100			0.57		500	700 p	411	***		***	***	54-	101	844		000
		Ghatal Eukrahaly	300		***	***	1000	-		***	BAS.		491	1.	***	414	200	***		***	
	44-Pergunaahi		***	1,51			1604			0.94	200	***	,				100		**		000
	44-1 OLINOMANIA	hour. Canning Town					141	***			man, mind	141		**						pa-	110
		Alipare Juli		101		**					844			101							0'18
		Barnet	-			101		1							100			***	187	110	0.01
		Husosuita!						-				,		1	200						- 100
	tlowreb	Howrah Mohesreka (Ooloobariah).				244	***	-		181	***		0.00	844	N. 100.0	- 4.6	4.910	-	1000	64.0	540
	Hooghiy	demmore		-14.0	***			*04		\$								W(\$1		100	0.03
	effortany	Hourhiy	197	191		1000 181	1	0.03					100	**		1000	-		***		•1.
	Burdwan	Culps			94.4			100	2.99		1004				144		201	244	, m	C*03	0.40
		Burdwan	***	-			494	1 100	0.03	6.30			-81		-	1 1 1 1 1		727 27E	***	1.52	0.2.
		Base-gunge Mankur		-			-	1						-		-		641	000	000	O'R
	Bankoeta	Banknora					440	400	-		-	1.00	nga	-				***	107	010	0° 11
		Homenpore Mahera Kleatra	=					+27	***					1	177			771		050	-
		Index				7		j 988   111			-		***		1.04				**	0'10	0 20
		Anda Gingsialahati			n.00		1	***				744	**			100	464				0.14
		Buspure	-	193		4.00		-				,	mg 1	1			1 00-			***	1.11
	Heerbheem	Hh. Soory		4.				1-19					911	***	4.00	] _		**		1'05	0181
		Rampure tiaut	9.4		***			***	0"25	-		-			132	_	400		400	2.10	1.81
		Hararas	-	-			204	}			-			-	*#1	-200	1	100		0.10	076
	Meddes	Renarhat	**	1.00		ete.		0.01		0.93	0.02	-		1			181	111		0.89	010
		Osemskings . Meherpore	***	100	414	101		0.002	r. 10	-77	0,39					101		701		0 38	441
		Koonisen									***		1			***				0101	0:01
	Khoolee	Hazirhat	050	100	***	1.6	***									Sec 7		***		0.00	U'03
	•	Nakipur Zampal	000	277			104	4.00	_	11				***	***	ob.				0:78	110
	Jeanere	Namail	249	100						-	1000		-				901		0:06	0 94	0141
		descret.	0,04	fil pert	-94	44	-	0:31	0 01		750	0.02						1	,	0.07	
		Howevenh Bengoeg	000	***	***		***	434	2 10	-	100	- 25	-	İ					***	0.00	6.43
	Mourabatated		***	100		***			141					1						141	0 27
		Hernumuore.,	204	214	107			***	-	0.06	***		414	**			***		1	0145	0.97
		Junitimes	104	100	##1 ##			-	0.10	0 20		-								3 30	244
17		Jange to trace	200	600 600	14		140	PARIL.								1				1:10	0.166
		Pathstors		410				0180	791	0.80		781		101	107	,	***	1180	0.80	0166	-
T BEFOAL	Chittagong	Cos's Dasar . Chettsyong	201	010 FRE	- 01	- CP	-			U'91	770	* .	-		***			0.61	0.07	0.85	
		Antwirles		441			479		122	181			***		+44		***	0.02	U13-6	0.40	0:10
									0105	(91,76				41					0.19	1	0.30

# Bengal in April 1890.

90	89	84	98	100	27	28	29	30	Number of miny days.	Average number of rainy days.	Total rainfall for the mouth.	Average minfal for the month,	fleaviest ranfall during the month.	Total rainfall from 189 January : 840 up to 50th April 1880.	Average rainfallfrom let January up to 30th April.	Station.	District.	Meteorulogical division.
0.00	905 408 609 620 620	-94 -40 -40 -40 		**** **** ****		100 484 182 486 50-	4 Po	-91 -91 -90	NII I NII NII NII	1.9	Nil 0'0b 0'08 Nil Nil Nil	0'64 0'64 2'19 7	NII 0:09 0:05 NII NII NII	1:40 4:43 5:18 0:7: 1:02 0:71	2:79 3:47 2:67 4:61 ?	Pooree Khurdah, Banpur. Felse Point. Gon. Natpara, Popli.	Poorse	ORISSA,
010	000 000 111 104 104 107	+94 +94 	****  ***  ***  ***  ***  ***  ***  ***  ***	A	989 980 980	0.10		**** *** *** *** ***	Nil Nil Nil Nil Nil	1'8 2'3 3'9 1'8 2'H	NII 0°19 NII NII 0°52 0°95	0 72 0°36 0°41 1°08 1°81	Nil 0'10 Nil Nil 0'21 0'50 Mil	9:28 4:24 2:40 0:50 1:51 1:50 1:31	3:40 3:14 3:57 3:10 4:d8 ?	Jamaingpore. Rank. Cuttark. Kendrapara. Jappere. Pharmada. Salipore.	Outlack.	4
940 940 940	000 010 000 000	\$20 000 000 000 000	001 013 005 000 000	-gr 890 944	000 000 000 000 000 000	000 000 000 000 000	000 201 029 031 192	#89 199 188 188 188 188 188	Nii 3 1 2 Nii 4	21 37 378 572 279	Nil 0 80 0 65 0 68 Nil 0 77	1.03 1 kg 1 kg 3 kg 1'4' 1'36	Nii 0'72 0'85 0'82 Nii 0'45	1°07 4°05 2°36 4°27 4°69 3°18	3'61 5'08 6'35 6'70 4 14 3'66	Chandbali Bunddruck. Sorah. Uala-oro. J-liasoro. Barrpodah.	Balazore.	238
491 440 433 433 434 444 494	000 000 000	000 000 000 00 000	0.00 0.00 0.00 0.00 0.00 0.00	0'10	000 000 000 000 000 000	004 004 040 544 111 604	401 401 101 101 101 101	040 040 040 000 000	NII 1 1 2 2 2 1	3°1 3°5 2°6 3°7 3°6 1	37i1 0'02 0'10 0'67 0'7d N:11 0'44	1'51 1'81 1 64 1'64 1'81 P	Nil 0°02 0°10 0°57 0°57 0°65 5 (1	2:40 0:95 1:20 1:57 2:16 1:13 5:19	4197 4195 4195 4193 4193 7 5190	Contain Banger Island Tominok Metunpure, Gratul Autrahaty, Garbeta,	Midnapuro	Horrs. West Bengal.
405	000	6-4	101	0.02	004	***	400		1	3:3	0195	2.91	0.09	1'83	6.08	Diamond Har-	te-Pergunnah	
0.80 0.80 0.84 0.84 0.03	M-20	0 0 000 000 000 000 000	500 100 500 000	0.10	2:18		994 1-1 544 207	150 17 25 161 11	2 1 2 1 0	9 4'0 4'1 3'4 3'8 6'1	0°14 0°02 0°07 0°84 0°80 8°12	7 1'A1 1'61 2 01 2 03 2'13	5.48 0.80 0.87 0.87 0.83 0.10	0:48 2:40 1:70 2:60 2:08 6:77	8 188 8 128 8 124 8 124 8 77	Alp re Jail. Hacrackpore. Lum.Dum. Haraset. Busserhat.		
0145	0.85	***		0107		0.01			3 2	8'6	010B	2197	0°48 0'07	1'73 0'92	8°76 4°60	Howrah Molieureka (Onlooberiah)	Howrah.	
0:28	044	6a+	***	300	203		007	200 200	2 1	4'6 4'a 8'6	0.28 0.38 0.18	2°00 2°71 1 91	0°56 0°85 0°11	1°50 1°64 1°94	8:05 6 31 6:72	Serampore Hesanis. Johanabad.	Heaghly.	
200 A	***	ese ese	120° 124 6a		0.01	0.02	agt ggt had		4 4 2 3	2.2 2.1 2.2 2.3	2'48 1'24 2'00 0'63 1'37	2:39 2:25 1:60 1:26	1'80 0'80 1'28 0'60 0'83	8100 9:17 8:61 1:74 1:89	5.32 4.64 5.70 3.43	Cuina Burdwun. Cutwa. Rannectunga. Mankur.	Hardwan.	
# 04	000 000 000 000 000 000	ned d	•••	101 101 101 100 100 100 100	0'03	0.08	- 54 - 43 - 43 - 43 - 43	20 A A A A A A A A A A A A A A A A A A A	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	88 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1.02 1.55 0.10 1.56 0.50 0.50 0.48 Nil 1.10	1.61 1.86 0.85 0.76 7	0.77 0.81 0.25 0.10 1.26 0.72 0.6. 0.82 Nil 1.11	2*15 2*16 1*35 1*90 1*97 5*59 0*90 1*85 1*85	4 74 2 107 2 42 2 89 1	Bankoora Bishinapore, Unitara Khistra Initas, Louispore, Amia, Ginneajalghati, Raspore, Sonomuhhs,	Bankowa.	
64,0 64,0 64,0 64,0 160	7 bo 766 600 391 804	004 004 006	104	4.00 4.00 4.00 4.00		901 93 934 1 337		44 44 472	2 3 1 2 2 2	3 2 3 2	1'20 2'45 0'50 3'01 2'73	0'94 1'13 1'52 7	0°85 1°19 0°30 1'81 2'60	3.14 0.10 2.14 3.14 3.10	3 60 3 60 7	Bh Soory Hetaupare, Rempere Haut Helicar Mararat.	Bosrbhuom.	-
019	16	101 101 101	, , ,, ,,	0177 0160 1146	001 001	6 H9 6 H3 - 000	630 1 4		5 6 8 8	4'0 4'7 4'5 4'5	2.19 2.19 3.83 1.40 1.40	2°99 2°47 2°63 2°13 3°01	0 fct 0°74 0°80 1°40 1°40	2155 1160 2102 2164 4161	8 70 5 13 6 13 6 42 6 37	Ranaghat Kishisachur Choosdanga. Menerpore, Kooshisa.	Nudden,	
0.08	0:80 0:15 1 ul			001 (b 001 (b	0'65 1'36 2'89	000 000 000 000	011	969 866	7 6 0 4	617 619 611 F	4.48 8.38 4.19 1.41	2'03 5 34 5 31 7	2:50 1:30 1:01 2:40 0:78	6'45 5'80 8'62 4 15 2'61	6183 7115 7186 ? P	Satistica Bearing. Knowles. National Rampul,	Khoulus.	
0.40	1:08 0:03 6:88 0:03		U'r\$	0189 0.38	1'20 0'08	900 900 900	*** *** ***	200	18 3 8	616 617 617 617 418	4:80 0:44 1:80 4:41 9:04	3:89 4:44 3:86 3:56 2:74	1:29 0:95 0:97 2:10 0:61	7-22 6-34 2-27 6-02 3-97	7 00 7 94 6 94 7 85 8 96	Narail Jessore, Jhemdah, Magoorah, Bongong.	Jagar Po.	
05u ed.c 960 5e 100 010 010 010	200 200 200 200 200 200 200 200	***	0.83	b'es	900	000	100 100 100 100 100 100	001 499 554 494	1 1 4 8 8 8 8 8 8 8 8	5:1 5: 3:3 5:3 5:1 7:7 7:7	0°82 0°41 0°55 1°19 2°09 4°60 0°80 1°48 2°91	1:06 1:41 1:2, 1:32 1:30 1:34 P	0:27 0:41 0:42 0:45 1:50 3:30 0:43 1:10 0:90	1.52 0.78 0.97 1.19 3.40 4.64 0.97 1.74 5.01	2'90' 6'64 3'60' 3'57' 3'00' 3'63' 9	Kaudi Berhampore, Laibegu Azungunge, Ju. gipore, Lairola, Jungunge, Akhryusy Pataubari,	Moorsbedabsd,	
0'40	0108 0181 9185 9107	0.01	1000	1.61 0.50	C*06	A.A.		201 201 201 201	7 10 7	4'2 5'6 1	4186 4131 3133 42165	4:02	1:80 1:01 0:00 0:05	6:33 7:06 4:93 4:55	6'61 6'34 ? P	Cox's Basar Chitmeong	Chittagons	EAST BEYONG.
5,414	01(6)			0.60	0111		100		9 8	814	4'08 9'13	4101 8180	2 68	10'51	8:05 8:05	Raugemani	Chittagone Bill Fracts.	

# Table of Rainfall recorded at State

		,										10	111	1.8	13	14	20	16	17	20	
rningen Tiston	District.	Meation.	1	•	3	•	•	•	2	•	9	10	44	1.3							
Hurgal meid,	Backergunge	Patuakhally	11		0.00	100	1	894	107	***	949	044 100	100	000 000	mad traft			194		0.85	
rapero and	1	Burrisal Hhoia Gournaddi Bauphal	007 100 010 ndd	9.60 0.0 0.04 0.00	000 000 000	0-0+ 0-0+ 0-10	411	000	000 000 000	0.59	040 040 044	004 Po.	003 V6 851	000 000 000	999 990 990	# *** # *** # ***	***	001 100 501	***	0168 0168	
	Noahholly	Noakholly Fenny Harishpore	101	***	101	445	001	0.04 0.03	9.08	004 100	0'12	004 004 010		***	900	999 363 442	0-0	0"73	0:07	0"41	
	Farreedpore	Rampanj Madariporo	200	100	100	544 544	944 944	044	011	0123	0.47	***	204	100	151	96s	***	0.19	0110	016	į
	Daces	Furrentpore Goslundo Munchigango	04F	160 089	107	005 001	0107	0°32	0.00	0.00	013	1713	1993	102	100	200	251	000	1:24	1°80 3°87	ı
		Dacea Naraingunge Manickgunge Joudebpore	509 211	001 100	100 100 100	000 000	620 921 684 6rd	0.13	909 207 144 888	004 004 004	040 904 719 549	0°16 0°88 1°48	200 000 000	0.0 0.0 011	220 220 226	946 999 994 698	196 447 204 104	0158	1:49	1'11	
	Hill Tipporah	Agurtola	***	100	494	841	Edity		0108	400	 612	909	104	1++		189	100	128	1:65 m13	1 05	ı
	Tippersh	Comilla Chandpore Brahmunbaria Ramchandra	994 994 111	004 004 004	944 944 998 4m4	004 004 004	000	9.68	0.30	0-04 0-04 0-04 0-04	0-93	1'30	191	DO 7	619 133 144	610	207 004 004	0°58 0°15	0 35 0109 0 66	0188 1188 0160	I
		pore. Nasirnagar Daudkandi Kasta	188 184	011 011	90	ett ett	201 011	0'16	620	0°40 0°86	10. 101 240	944 944 1	894, 1-4	61	601	001 001	20+ 1+1	0.32	0.86	2°30 0'65 0'57	
	Mywenniagh	Kishoregunge Lim (Tangali)	640	444 ETT 214	***		000	2:02	0.40	991 484	400	B104 9197	97.	24	140	604 614	0.	0.14		0'31 1'67	-
		Mymensingh Jamaipore Netrokona Subornakhalla	4 4	400 g14 900	***	018	0.54	0'94	010 010	- 4.8 - 0.07 - 0.04	0706	0.85 0.85	-00 -00 -00	001 with 651	200 200 200 200 200 200 200 200 200 200	1004 1004 1004	***	0'15	0 70	0 81	
		Imrgapore Sherpore Town Devenganj	0-04 E00 0-04	200	001 001	000 000 000	0.20	\$07 \$07 \$07	out bee	284	+20 907 98n	1'54	04A 04A	60- 60-	224 124	100		1:32	0'35	0'47 6'70	
BEFOAL	Pubos	Pulyna	040 60.0	0.07	6P0 004	200	9.76	0°03 0°15	000 000	jąd tea	ggd	1'25	207	***	900	ean kan		0°10	0.00	0.62	1
	Regard 11-	Nowkhilla Bogra Panchbibi	000 000 000	010	000 000 000	009	001 001 001	414 414 624	101 101 101	dipa dipa tida tingt	004 004 004 004	0.43 trut	99-0 99-0 50 88-2	999 999	60- 60-	400		401 27 281 281	000 001  201	0 P4	
	Bajohahye	Beanleah Nattore Naogaan	11 de 1	000 000	pad 001	000		0°25 0°23	0.98	600 001 001	96" est	844	69 <sup>2</sup>	071 991 994	6+2 22 301	10-0 10-0 60-	***		***	2109 6148 0163	-
		Laipore	800 800 601	409	094 104	*3*	000	100	000	0.0	410	970 803	100 961	pri nn	1-3	201	,	00+ 0+-	***	9/19/6	ı
	Maidab	Chanchal Gajol Sibganj	000 000	-011 -011 -010 -010	450	000 000 00	684 686 660 801	\$84 \$4 \$44 \$60	501 501	001 001 009 003	940 940 941	000 000 000	000 000 000	\$00 \$00 \$07 \$14	524 014	000	**		111	0:18	
	Dinagoporo	Mohadebpore Chummon Raigunge	550	000 001 074	000	200 201	000	004 004	101	540 044	2100 020 002	090 644 641	880 000 010	994 9 -	9 m d 2 m d 4 m d	pps pre-	40.	401	0"11	0.00	
		Dinagepore Releasebat Thakurgaen	000	0.00 0.00 0.07	000	014 015 500	000 000 041	001 201 201	9,64 9 EB 9.0	1'10	000	804 840 444	000 000 000	991 jibs jiss	995 914	000 000	***		***	0.34	-
	Rengpere	Shawanigungo (Gyalanda), Rungpore Kurigeam	260"	009	801	201	907 907	801	10s	para Para Bijo	011	1190	0.11	240	907	000 000	***	***	0.01	0.44	Į
		ingdogra i Nilphumari). Ulipora	244	007	001 001	104	694 69a 774	271	800	000 P	0*11	013	8190	9,60 80.6 9.0~	404	,		100	##s	0.12	1
	Inipigeree	Julpigores Alipore Dogr Falacotta	000 000	201 202 202	100	00- 004 174	610	201	000	000 051	2'86 0 67	0°96 0°30 0°40	0°63 0°63	941 det	990		0.00	0.08	0102 1 25 0 46	0.11	1
	Couch Dahan	Bhogstpore (Nagrakatta). Dinhatta	202	***	-04 #4#	404 410	1 020 600	1 pag (	198	500 500	0.12	0 31 0 48	0195	800 800 800	000	100	0.88	0.19	0 68 0'63	0:13	
	Cooch Behar	Cooch Behor Mickligunce Matabhanga	550 500 500	698 649 888	104 001 241	500	900	601 014 501	1000 000 000	0'27	3°66 2°69	1°11 0°48	0.36	\$40 \$20 640	801	0.03	0.90	0'30 0'47	0.40 0.00	0'11	
	Darjooling Hill	Buza Silignei Impositng	99 915 190 I	100	440	010 000 000	100 1 00*	500 - 100 - of0	000 100 0101	040 000	2.01	0°86 0°45 0°80	0°03 0°21	0185 at.	0.61	8104	201 201	0'03	0.40	0.120	
Annan	Purnesh	Kalimp ng Kuranung	90A 691	494	840	040	40+ 440		300	668 668	0'16	0.00	7°06	000 000	444 444	101	0.07	461 60+	900	0124	
		Puenean Gondwara Judarampore	000 000	000 d01 010	001 000 000	002	648 648	62. nes	940 100	000	0.03	0.55	3.	044 004	966 4+1 50*	000 000	400 007 600	10 201 001	185 781 318	9009	
		Matsar: Kaliaganj	ngo ngo i ndo i	003 003 000	000	000	200 200	601 - 6 604	1000	000 000 000	940	9'85	601 501 851	007 810 830	100	100	# P P P P P P P P P P P P P P P P P P P	001	20-	0.10	
	North Bhagui- pore,	Maddapus Bogucol Protebpenj	001 011 101	000 003 010	994 994	004 P00	000	00+ 00+	1011 1011	040 040 040	000 020	### (E)	0.5 K 0.5 K 0.0 K	010 010	654 618 666	***	960 ecr 860	111	0-20	0193	

in E	Bengal	in	April	1890-	-continued.
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91	25	168	90	56	26	87	20	29	80	Number of ramy days.	Average number of	Total rainfall for the month.	Average rainfall for the nonth.	Heaviest rainfail during the month.	fotal rainfall from 1st January 1850 up to 3-th April 1880.	Average rainfall from 1st January up to 30th April.	Station.	District.	Meteorological division.
0°81 1°25 0°68	1'06 0'17 1'84 1'A1 0'60 0'86	1°10 0 45 1°43 2°87 3°88 0°87	011	099 098 199 660 600	0'06	0.78	100 000 000 000 000	**************************************	001 001 101 414 114	5 6 6	4'8 6'4 6'4 8'0	3:89 3:27 4:15 6:86 5:25 1:78	8'04 2'65 3'61 3'89 1	1'10 1'41 1'84 2 67 3 69 0'86	4160 2 86 8153 6126 6160 2108	6 75 6 27 7 6 5 7 5 2 P	Patunkhaily Posseppore, Burrast, Rhola Gournaddi, Bauphai,	Mackergunge.	Bart Rongal- concld.
1.40 1.00 0.03 2.79	1°80 0°45	0'31	0'64	944 944	016	1-70	244	100	004 204	8 8	8.6 6.2	6°84 6°84 8°60	4'81 4'77	2°85 2°25	9°12 9°81 9°80	8°67 10°76	Noakholly Fenny Hartshpore. Ramgasj.	Seakbolly,	
e188 o17	1'45 0'39 4'11	9'38	101	e e q	0.10	1'10	109	#40 111	600 000	8 8	6'6 6'4	6'48 1'58 6'78	8 WS 4 07 8 PS	2'28 U'47 4'11	9°07 6 08 9°85	8109 8164 7168	Madaripore Furreed pore. Goalundo.	Purraudpore.	
20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1'46 1'46 1'18 1'45 1'45	0.00 0.10 0.00	120 101 102 100 100	000 050 103	0'44 0'16 0'18	0.04	00+ 10+ 200 200	100 100 100 100	999 999 994 994	4 7 8 8	7'8 8'6 7'8 7'7	4:65 6:63 5:57 6:10 6:70	4 82 5'H1 4'H5 3'H7	1'80 2'67 1'71 1'10 1'86	7'89 11'90 7'47 2 77 9'36	10°65 9'73 9'03 7'36	Munshigunge Duces. Narmingunge. Mannagunge Joydebpore.	Daera,	
adh	0-57		000	000	000	,	347	100	000	8	615	6127	5'28	273	10:86	12:00	Amrtola		
0'40 0'40	0.83	0.32	0°03 0'31 0'85	000 000 000	0.19	0108 1138 0104 0104	514 000 044	102	0'14	14 8 13	7.6 5.6 7.4	2°50 5°41 4 35 2°96	6.28 4.194 8.106	1°06 1°56 1°56	8·59 7·67 6·08 4·31	11,9T 11,9T 11,9T	Comilia Chandpore, Brahmunberin Ramehaadra- pore, Nacirnagar,	Tipperah.	
9793	1°90 0°43 0°99	8'40 	2°30	944 944 944	0'86	900 900 904 900	00H 01D 00 121	000 200 000	150	3 8	7 9	18'50? 1'71 1'43 4'42		0.42 0.43 \$.10	5:10 5:10 7:35 7:35		Bandlandi, Kasla. Lakskam,		
8'80	0165 0165 1166	0°24 1'09 8'09 0'05 0'58	0180	0784	0°85 0°40 0°35  1°40 0°30 1°07	000 000 000 1 000 1 000 000	000 000 000 000 000 000 000 000	001 001 000 100 100 100 100	500 600 600 600 600 600 600	6 8 8 8 7 7	7.8 8.0 7.8 8.9 8.7	3.97 8.90 8.61 7.30 3.48 7.11 4.84 10.38 8.04	3-00 3-5: 2-66 3-96 4-16 2-9	5°21 1°67 1°50 3°59 1°43 2°40 1°30 3°75 1°80	9°01 9°17 9°36 8°58 7°68 6°48 12°12 5°49	9°64 9'53 9'21 6 23 7'89 ?	Kishoregunge. Atia (Tunguil) Mymenengh. Jamalpore. Netrokona. Subornakhally Durgapore Sherepore Tom Duosagaaj.	Mymonaugh.	-
90E 101	0.93	0'06	444	501	0.92	***	700 248		000	B 10	7'2 4'0		3·11 5·7s	1°04 1'27	8.43 9.18	6'46 5'57	Pubna Serajgunge.	Pubus	Нокти Вияод
00A	000 000 000 pad	0°05 0°15	100	911	1'40 1'35 0'58 1'09	200 200	600 104 501	990	97 904 984 984	6 8	3'5 6'8 6'8 2'6	3°62 3'64 3'62 3'61	1'56 1'90 3'27 1'60	1'40 1'25 1'32 1'09	8:08 6:06 6:71 8:06	4'87 4'61 8'55 3'36	Sherpore Nowkhilla. Bogra. Penenbibi.	Bogra.	-
0150	000 100 100 000	004 004 024 004	0000 144 144	1.30	0°10 2°53 0°48	000 010 011 101	ones	774 084 094 401	***	5 8 3 3	2'8 8'0 1'7 ?	3788 9711 1788 3799 0731	1.73 9.17 9.74 1	8'06 4'%0 6 d8 1'76 0'85	8:49 8:14 1:48 6:02 0:31	4°14 4°59 8°65 ?	Beauleah Nattore, Naopaon, Laipore, Manda,	Rajshahyo.	
	000 505 110 FOA	204 204 204	074	*** *** ***	0:34	000 000	000	100	50 h	3 1	216 214 P	0°46 0°23 0°40 0°78	1'85 1'01 P	0°84 0°94 0°40 0°60	0.40 0.72 0.40	3'87 2'43 2	Maldah Chanchal, Gayul, Jopanj,	Maldah.	
17 201 111 110	100	200 510 510 600 600	+00 +00 +00 +00 +00 +00 +00 +00 +00 +00	0129	1.24	004 005 036 297 nob	044 054 000 101	100	004 502 241 444 501	4 1 2 5 3	1'8 1'8 2'9 8-7 2'1	0°58 0°12 0°53 3°46 1°78 <b>3°40</b>	0°99 0°59 1°12 3°27 1°06	0°99 6°12 0°30 1°76 0°61	0.73 0.15 0.67 3.97 1.76 2.63	9:77 1 97 2:81 3:91 3:86 7	Mohadebpore Churamon, Maigunge, Dinagepore, Balourghat Thakurgaon.	Dinagepure.	. 10
*** *** ***	0'08	eran	0106	o is	1'66 0'84 0'45 0'40	000 000 110	0102	0.10		7 6 9 0	6°7 6°4 6°8	8:30 9:30 8:17 3:21 8:29	2'73 2'06 4'79 3'63 P	1°80 0°84 1'80 1'04	5'14 3'01 5'82 3'01 6'77	8*05 7*66 5*63	Bhawninunga (Oyabanda). Rungpara, Kurigram, itandogra, (Nilphamari.) Ulipara,	Sungpore.	
9704 U1U9 U1U9 U1U8 U1U8	1'68	1'67 1'89 2'46	0.09 0.48 0.13	000 000 000 000	1·22 0·96 0·70 0·50 3·43	500 670 600 112 145	0137	0'03	000 000 000 000 400	10 13 12 5 15	6.7 ? ?	6°54 9°29 7°29 2°43 6°04	2 P	1°57 2°68 2°48 1°40 3°43	8'45 9'29 8'00 3'44 6'73	6.00	Adpiroree Alipore Doar. Fabrotta, liebiganj, Bhogatpore (Nagrakatta.)	Јагричесо.	
0.63	9.88 0.18 0.00	0:79 0 88 0'88 0'68	0'87	0°07 0°33 0°38	0.23 0.23 1.21	000 010 011	010	011 011 020 944	900 000 000 000	11 11 10 13	8-9 8-7 7-3	6:83 10:45 4:44 9:71	4*48 5*46 4*79 4*54	5.90 1.81 8.00 1.01	7'71 11 13 4'47 10'18	7:17 6:11 6:78 7:66	Dinhetta Cooch Heber Hickligungo, Matsubauga,	Cooch Sehar.	
0.00  0.00	0.1P 0.51 0.58 0.58	0188 0 73 0 86 0185 0 16	0.01 0.12 0.03 0.18	0.14	0.08 0.08 0.08 0.08	6°08	0°15 0°69 0°24 0°10	0°01 0°01 0°11 0°82	9 + 4 8 # 0 9 + 9 0 + 9 0 + 9 0 + 9	18 12 13 11 11	18:3 6:6 10:9 9:6	7°58 4°55 5°05 8°44 2°40	8179 8133 8 83 3 94 7	9:61 1:00 1:41 1:05 0:70	8:57 4:67 5:54 4:43 4:47	18'99 5'86 8'04 6'81 7	Bura Sugari, Darjeeling, Kaluapong, Kuranong,	Darjooling.	
Non The Top Try Try	**************************************	900 010 000 711	000 010 010 010 000 011	004 401 401 600 916	0.03	610 610	000 000 100 00 001	000 000 000 000	000 000 000 000 000	8 8 1 1 Nil 8	8-2 2-6 2-7	1:36 0:45 0:30 0:02 0:16 Nil 8:13	1'87 1'80 1'40 7 7	0°08 0°36 0°29 0°10 0°10 Nil 1°87	9:66 6:63 0:37 0:04 0:10 N:1 3:53	3'89 5'10 2'82 7	Kissengungo Arravah, Purneah, Gondssara, Balarampore Matteri Kalatagang.	Purneah	North Sprak.
***	914	10.	001 00+ 400	+ · <b>1</b> + · <b>1</b> + · <b>1</b> + · <b>1</b> + · <b>1</b>	471	504 100	100	410	410	1 2 3	1'8	0°76 0°67 1°91	1°03 0'85 †	6'76 0'38 9'68	0°68 0°77 1°82	2:45 2 14 ?	Maddapore Succession. Protebgonj.	North Bhagui-	

# Table of Rainfall recorded at Stations in

eteorological division.	District.	Station.	1	2	8	à		4	7		9	10	11	13	13	14	15	16	17	18	10	
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TH BRHAR	Durbhungs	Tajpore Durbhunge	101	***		001	000	***	***	141		801	***	***		441	711	000	100	0-22	0129	
canold.		Madhulani			488	000	100	4.00	14.4	444	111	444	104	***	100			000	***	221	***	ı
		Roshera				104	***	***	***	7841		682			100		0.04	460		0.03	163	Ì,
	Mosufferpore	Stamarhi	00A N30	191	)	10	***	411	584	681	001	111	***	201	***	414		941	100	100	441	l
		Ilajinore	401			***	887	200	***	4.44	944	140	681	***	161	**	100	941	994		010	ı
į		Mahua		***		***	***	ter.	en.	100	**	***	***	174	***	140	000	## ### ### ### ### ### #### #### ######		**1	0.0 t	ı
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		Bagaha	1000	101		10	00-		***	-	***	100	100	***	***		***	910	***	001	100	
		Surkurus	1.11			***					***				40.	00.7	004			00+	F 9.1	ı
	Serun	Gopulgunge	101	181	-1	100	100	***	-4.	***	1.04		***	841	90-			***	000	004	149	1
		Chupra	***			**	***	441		***	504		100	***		***		000	***	0.60	***	
ra Bwwaz	Ahahahad	Buxar Debree	410			181				***	700	100	***	***	400	807	544	200	***	000	144	
		Sasseram	***			**	101	000	461	45.1	8.04	110	***	40.	***	111	*1*		000	***	60+	
		Makaniah	091 000	111	190	400	p.o.,			001	100	504	004	***	***	400	001	,	24.	***	***	
	Ayo	Aurungabad	801		4.00	*4*	8.01				•••	***	***	***			451		***	***	***	
		Gya Nowadah	090	161	341	199	***		100	***	101	121		100	***	944	***	141	45+	000	***	ı
		Jehanabad	***		***	100	204		***			111	100	***	0.0.5 8-0.5	001	100	904	904	111	***	ı
		Dandnagar Sheerghati	100	147		***	**		100	es:	1404	***	***	141	101	441	***		*14	844	***	ı
		Rajauli Pukri Barn-	001	411	100	000	***	100	***	100	***		111	861	***	***	des	991	994	0-0-0 0-0-0	***	ı
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		Bickram	110	#8# 884	***	149	200 004	441	401		940 980	100	107	540 844		44.5	966		***		964	1
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		Jamui	110	***	177	141	991	910	905	775	***	***		816	***	***		***		200	000	ı
		Sheikpupu	204	***	****	801	0-00	***	-30	***		***		911		***	***	000		840	0104	ı
	South Bhagul- pure,	Hanna	900	111	***	100	***	100	117	7	0.38		***	0.04	264	***	893	011	• • • •	101	1'65	1
		Bougaon	654	444	141	100	***	866	010	700	***	*44	***	***	***		264	864	t to		0.82	
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	gunzaha.	Godda	991	196	200	193	15.1	***		141	PG4 Appl		800	26-0	***	600	407	88+	224	0'62	401	0
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		Mohagama	999	100	***	141	121	***	***	***	***	***	101	81	200		960	034	494	0 B) 9'24	0.03	
		Annihat	000	***		290		***	***	***	.,	***	-	444	***	***	494	821	4+1	0115	0 61	
TIA NAS-	Hasaribagh	Pachamba (Ginidi),	983	***		100	981	-94	***	gets				801	14.1		***	***	9-01	0.05		
		Hazaribagh Seintagurah	***			***	100	103	100	0.04	194		##1 ***	#10 mark	100	***	804	401	***	9.94	942	
		Mahada Halla Juoomrah Halla	ŧ.			140				***	101				**)		***	466	***	144		ı
		Chatra	912	100		122	114	100		***	***		***	200 001	***	201	444	121	***	***	***	
		Karagdeka Kamphar	464	101		***	194	010	***	11	444	***		96y 98%	***	***	***	000 280		***	***	
	Lobardugga	Lobarduggs	200			***		401			***			***	***	***	***	***	041			
		Ramelil	***			1.0.		***			***	***	***	500	***	***	***	444	000	***	***	
		Silli Balumat		100		100	***			199		***	ees	***	207	140		407	***		***	
		Hosemabad		100	***	***	644		***	114		***		497	***	141	***	842	***	100	+0-3	
	Singbhoom	Chyebasta		***	490	***	000			424	944	000	100	***	000	***	100	244	000	***	000	
		Chakradhar-	***		484	001	001			24.	9.1		104			143	244	5.17	110	***	001	
		Chutaila					.,,		***	100	.,			***	*#1	44+	774	040	***	1:83	0.02	
	Manbhoem	Marana San				001	100	1.00		4.00		***		***		030	101	***	***	***	0.00	١
	ALEMONOS	Golundpare	***	101	***	***	***	004		*00	141	100		194		000 004	6 9 E	941	444	***	0108	
		Regionath-	1000	100	-	***	***	497	***	***	4.04	861	***	***	400	100	***	44.0	***	***	411	
		Barrabhoom	***	10.0	100	* 61.0	481	#01 896	401	100	100	***	101	***	***	***		102	040	1+4	900	١.
		Chas			***	Pav	***	101	100			***		***	***	***		013			111	1

ngal	for	the	month o	of	April	1890-concluded.
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	23	38	84	25	86	87	25	200	00	Number of rainy	Average number of the cay days.	Total rainfall for the month,	Average minfull for the month,	Heaviest rainfall during the month.	Total rainfull from lat January 1980 up to 30th April 1890.	verage rainfall from 1st January up to 30th April.	Station.	District.	Meteorological division.
				9.04 111 111 111	**** **** ****	000 000 000 000	101			NII 1 3 NII	0'9 1'9 1'9	NII 010 049 Nii Nii	0°88 0°80 1°86	Mil 0'10 0'22 Nil Nil	0 21 0'46 0'89 0'18 0'05	1'67 1'98 2'58	Tajpore Durbhunga. Madhubani. Bahera.	Durbhunga	NORTH BREAU-concid.
	. #48 1-104 404779 		600 177 141 0 00 414	000	900 000 000 000 000	0106	0'14	***	***	NII NII NII NII NII	1.0 1.4 0.0 7	0'07 0'04 Nil Nil Nil Nil	1.18 0.35 0.10	0'65 0'04 NII NII NII NII NII	1'30 0'21 0'17 0'20 201 201 0'70	2:66 2:37 1:68	Sitamarhi Nozufferpore. liajipore. Paru. Mahuo. Siuhar. Pupri.	Mesufferpore.	100
	10100 AT 11	* # 0 * * * * * *	\$20 00-	 	0'68	0.02	6'03	000	***	Nil Nil 3	1°8 1°1	Nti Nti 0:71 0:01	0.4	0.01 0.00 MU MU	0.43 0.40 2.58 0.31	1.80 1.80	Motihari Bottiah. Ragaha. Burkurwa.	Chemparup.	
	Jan.			6005	984 961 100	070 340 340	911 711	041	404 / +01 199	NII Nil	0.45 1.4 1.1	Nil Nil 0°05	0.39 0.32 0.30	Nil Nil 0'05	0°25 0°23 0°16	1.61 1.73 1.90	Gopalgunge Sewan. Chuprah.	Sarun,	
11111	000000 100000 100000 100000	-442 -442 	100	000 001 620 840 980	0'14	0.08	100 001 001 000 000 001	998 950 890 830	084	Nil Nil 1	0.8 0.3 0.0 0.8 1.1	Nil 0'04 Nil 0'12 0'08 Nil	0.18 0.00 0.14 0.14 0.14	Nil 0'64 5il 0'13 0'03 Nil	0 30 0 40 0 45 1 0 2 0 16	1'84 1'66 1'87 1'45 2'36	Buntr Duhrac. Bhuboosh. Sasseram. Armh. Mohamiah,	Shahabad	SCOTE SENAR.
		000 011 000 000 000 000	**** *** *** *** *** ***	800 849 860 890 403 000 880 41.	0'26	000 000 000 000 000	000 640 640 800 900 900 900 900	001 001 001 001 010 000	000	Nil Nil Nil Nil Nil Nil	0 D 1 1 1 0 D 0 S 7	NII NII NII 0'09 NII NII NII	0180 0182 0100 016 7 P	O'16 Nil Nil Nil Nil Nil Nil Nil Nil	0.36 0.38 0.13 0.57 0.24 B.O N.O 0.08	1'06 1'07 1'98 1'09	Aurungsbad Gya. Nowadsh. Jehanabad. draal. Doudnagar. Shoorghati. Rajanii. Pakri Bara- won.	Gya.	
	Congress Con	200 490 500 570 631 800		903 850 000 010 010	101 103 104 100 100	0°01 0°08	944 004 910 001	A11	000 000 11. 000 005	1 1 Nil Nil Nil	1.8 1.0 1.1 0.0 1.1	0'01 0'08 0'10 Nii 0'75 Nii	0°27 0°23 0°22 0°12	0°01 0°08 0°10 Nil 0°60 Nil	0"11 0"00 0"81 0"20 0:85 0"43	1°77 1°30 1°78 1°30 1°30	Patna Dinapore. Hohar. Barrh. Bickram. Hilss.	Patus.	-
		500 020 020 030	1005 110 000 000	000 000 40- 001 000	,117 607 600	041 001 044 044	001 044 400 400		***	NII NII NII	1.8 1.3 1.0 P	o'es o'es Nil Nil Nil	0:36 9:46 9:80 1	0:43 0:01 NII NII NII	0.28 0.11 0.10 Nil	1:00 1:97 2:26 P	Begooseraj Monghyr, Jamui. Gegri, Sheskpure	Monghyr	
	******* ****** ******	81- 64* 290	090 090 091 091	ere ded ago seo	250 260 906	000 010 000	101 101 100	994 984	421	Nil Nil	1'8 1'6 ?	0°04 2°45 Nil 0°25	0.84 0.98 1	0.82 9.08 0.82	0°06 2°60 Nil 0°35	2:37 1:99 ?	Bhagulpore . Banka. Kolgong. Bongaon,	South Shagui- pore	
	7000 mg 6-1, 200 m	000 00 00 00 00 00 00 00	000 101 101 100 800 800 800	001 019 019 101 010 01	0.00	020 027 027 000 000 000 000	200 201 200 201 200 222	004 +84 011 50+ +42 	000 840 860 704 411 704	114881111	1.6 1.6 1.3 3.1 9.3 2.0	0.75 0.08 1.31 1.32 0.40 0.51 0.54	1'04 0'49 0'48 1'05 0'80 0'80	0.75 0.03 0.03 0.06 0.40 0.30 0.24 0.61	6'89 0'73 1'45 1'67 0'82 1'80 0'24 1'70	2°03 1°78 8'28 3'00 2'34 2'33	Rajmekal Golda. Pakour. Nya Doomka. Deeghur. Januara. Mohagama. Nanthot.	Sonthal Pergunnaha.	
	**************************************		9 4 **	912	194	300	***	***		Nat	2°1	Nii Nii	0.88	Nii	0:54	2°37	Pachamba (Giridi). Hazaribanh.	Hasaribagh	CRUTIA NASPUR.
	**************************************	+ 4 0 + 4 1 + 0 0 4 + 0 0 4	***	1200 201 202 100	1295 1014 1027 634 530	000 449 844 869	050 ado v.o aro		100	NII NII NII NII	0'8 0'4 Nil ?	NII NII NII NII	N/30 N/11 P	NII NII NII NII NII	0°74 0°67 1°05 0°70 Nil	2'51 1'46 ?	Semiagurah. Mahudi Hills. Jhoomrah Hills Barki. Chatra. Karagdeka. Romghar.		
	*** ** ****** ** *** *****	988 884 881	0.01	den fod 185 0	0'10	0'08	010 010	024 024 025	143. 044 164 181	Nil Nil Nil	20 24 13	Nil O'18 Nil O'03	0.81	Nil Nil Onto Nil Oros	1'40 2'63 1'14 0'40	2:31 3:78 2:21	Lohardugga Ranohi. Pulamow. Silli. Haiumat.	Lohardugga.	
	A1 68 641 198 1198 1198 1198 1198 1198 1198 119	601	411	000 000 000 000 000	101	0'04	dat equ med and	***	444	NH NH 1	019	NII NII 0'04	0188	Nil Nil 0'04	0.89 0.89	7 3:46	Horomabad. Garwah. Olyebusta Ohakradhar-	Singbhoom.	
	Property Comments	499	699	#65 801	000	0'24	995 694		***	8 1	1	1.28g	-	1.32	3°69 4°93	ÿ	pare. Ghatsila. Bahurayara.		
	** **	11	***		100	0.01	233	***		1	3.8	6'67 U'08	0.43 0.43	0.03	0.85	8'03 8'46	Purulia Gohindpore	Manbhoom.	
-	PERCENT PROPERTY OF THE PERCENT PROPERTY PROPERT	A34	0.00 0.01 0.00 0.00	441	***	009 806 907	6-00 0-0 0-0 0-0	997 91 11	697	Nil Nil Nil Nil 1	2 2 2 2 2	Nil Nil Nil 0'88	2	NII NII NII O do	1'50 0'38 1'34	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Raghmath- pure. Harrabhaom. Jhalde. Ohas.		

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVATIONS TAKEN IN ASSAM, FOR THE MONTH OF APRIL 1890.

Meteorology of the month.—Weather conditions, especially during the latter half of the month, have been very different in the various districts. Thus in East and North Bengal rainfall has been above the average and temperature below, while in the other districts rainfall has been deficient and temperature in excess. This may be due to the position of the low-pressure area which generally lies over Bengal, to the centre of which the three sets of winds seem to converge. In consequence of the high pressure in the early part of the month, the area of lowest pressure was either close up to the hills, in which case westerly winds were blowing over the whole province and no rain fell, or the area was to the west of the boundary of Bengal, and then the westerly winds blowing across Chutia Nagpur or down the Gangetic valley were feeble. It would seem that the rainfall in the western districts in the month of April is due to the interaction of the Bay current and the westerly current, and as the latter has been feeble during the month under review, the rainfall on that side of the province has also been below the normal, while the continued cloudless weather has given higher temperatures than usual. Again in the eastern districts, the current from the Bay has moved in a more northerly direction, and the interaction with the Assam current may have been more pronounced than usual; hence the heavier rainfall in East and North Bengal. In the early part of the month pressure had commenced to rise, and with various small oscillations the rise went on during the first half of the month, during which time there was lower pressure in the North West Provinces and Central India than in Bengal. The weather had the ordinary hot season characteristics, high temperature, clear skies, and generally southerly winds in the lower districts and easterly in North Bengal and Behar. By the middle of the month pressure was again below the normal, and it continued so almost till the end of the month. Two small depressions appeared during the third and fourth weeks, the first about the 17th, when winds were south-easterly in South-West and East Bengal and general rain fell in the eastern districts, but only very scattered showers elsewhere. The depression moved from the west to about the centre of the province and then filled up. The second one commenced on the 24th to the west of Chutia Nagpur, and moving in a south-easterly direction was over the head of the Bay on the 26th and in Arakan on the 27th. During the ten days following the 17th the weather in East and North Bengal was unsettled. Severe thunderstorms with heavy rain were of daily occurrence, and one of these, in the neighbourhood of Mymensingh, seems to have acquired the violence of a tornado. Thus during the month, pressure was high in the early part, fine clear weather prevailing, and low during the latter half, when winds from Assam strengthening and those in Lower Bengal becoming easterly, showery weather with low temperature set in, while in the other districts only occasional scattered showers occurred.

Pressure.—The steady rise which had set in at the end of March continued till the end

Pressure.—The steady rise which had set in at the end of March continued till the end of the first week of April, when there was a large excess in the centre of the province, gradually diminishing towards the boundaries. At Maldah and Serajgunge it exceeded a fifth of an inch, and in East Bengal and parts of South-West and North Bengal was more than '15 inch. A general fall then set in and continued with moderate rapidity till the 12th, when the distribution was very nearly normal, and after remaining steady or oscillating about the normal for some days, a fall again set in on the 17th, followed by slight changes on the 18th and a rapid rise on the 19th, especially in East Bengal. From the 20th to the 24th it fell rapidly, giving a defect of about a fifth of an inch in East Bengal and a tenth elsewhere, then rose rapidly till the distribution was again nearly normal on the 28th, after which it fell on the 29th and rose on the 30th. The oscillations have therefore been large and generally continued for several days, but except in the early part of the month, pressure has generally been below the average. The means for the month are slightly below the normal in Lower Bengal, the difference being about a hundredth of an inch in Orissa, Bouth-West Bengal, and South Behar. Elsewere there is a small excess, generally under a

hundredth of an inon.

Temperature—Has generally been above the normal, more especially in the western half of the province. In the early part of the month excess was largest in the day temperatures, averaging about 3°, while at night there was generally excess of about 1°. Between the 4th and 11th there was a large fall in the maximum temperature in Lower Bengal, but an increase at night, the mean still continuing above the normal, except in Orissa and East Bengal. As compared with the normal, there was less difference during these days than any other part of the month, and these conditions remained unaltered in Orissa and East Bengal for some time, while excess was from 2° to 3 5° in the other districts. Between the 18th and 26th, in consequence of the two shallow depressions giving unsettled weather and thunderstorms, a rather large defect appeared in East and North Bengal, but after the disappearance of the second depression about the 26th, a cold wave moved over the whole province, giving unusually low temperatures for about one day. It was felt in Behar on Saturday the 26th, over the great part of Bengal on the 27th, and at the eastern stations on the 28th. With the approach of these conditions temperature fell with great rapidity, and for the short time they lasted it was from 10° to 20° below the normal. Some of the minimum temperatures registered on the 27th were—Chupra 61°, Arrah and Hazaribagh 66°, Dehree, Buxar, and Bhagulpore 67°. On the 28th Darjeeling reported 41.7°, Purneah 63°,

and several other stations under 65°, while over almost the whole of Bengal temperature on the night of the 27th was under 70°. A rapid rise followed, and till the end of the month excess prevailed. The means for the month are above the normal except in East and North Bengal. In Chutia Nagpur excess is 0.8°, South-West Bengal 0.6°, and South Behar 0.5°. For East and North Bengal defect is about half a degree, and for the other districts the

For East and North Bengal defect is about half a degree, and for the other districts the mean is very nearly normal.

Rainfall—Was absent during the early part of the month. Scattered showers commenced in South-West and East Bengal, continuing till the 10th, and almost general rain fell in the northern districts of North Bengal from the 9th to the 11th. Between the 11th and 15th only a few scattered showers fell in North Bengal, but on the 16th they were again more numerous in East and North Bengal, and almost general rain was received on the 18th and 19th over the eastern half of the province. Bainfall was again more scattered on the 19th, and continued so till the 26th, after which it practically ceased. The showers in the western half have been unusually scattered and scanty, and the average fall for these parts is largely helow the normal. Excess in North Bengal amounts to 1.3 inches, and in East Bengal to 0.9 inch. South-West Bengal has received about three-fourths of the average, South Behar four-fifths, North Behar one-third, Orissa one-fifth, and Chutia Nagpur one-seventh. Some heavy falls have occurred in East and North Bengal, the heaviest being Julpigoree 6.3 inches, heavy falls have occurred in East and North Beneal, the heaviest being Julpigoree 6.3 inches, Mymensingh 6 inches, Noakhally and Serajgunge over 5 inches, and Dacca 4.8 inches. Heavy rain has been falling in Assam—12.8 inches at Silchar, 6.9 inches at Sibsagar, and 6.8 inches at Dhubri.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the month of April 1890:—

	1	1	A Prepr	RATUR	8.				1	LAIWEA	LL.			
	s month.	month.		month.		th above of month.	C	H mou	tih .	Bats	ry day	8.		16th
Merboropical Divisions.	Mighest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of wouth or below normal mean of	A versign.	Normal average.	Variation.	Aversge number in menth.	Normal average num- ber in month.	Variation.	Average.	Normal average.
Ortons 40. 444 465 40.	. 118 4	6816	9315	7816	85'8	+01	0186	1:20	-1'06	11	27	-1'6	64-78	56'70
South-West Bengal	118'6	6419	98'9	76'6	87.7	+0'6	1'86	2'05	- 0161	81	410	-0.9	54'98	56'80
Boot Bengal	98°6	06'6	90'4	78'6	82'0	-0.8	4180	4'00	+018	7'6	6'4	+13	83146	88'17
Korth Bengal'	106'8	00 5	9814	1814	8814	-016	3 76	2143	+1'88	610	414	+1%	77188	74'61
North Behar	106'8	86'5	9910	70'3	88-8	+0"1	0.93	0.81	-0.40	1'3	1'7	-0.4	58'82	80141
South Behard	110-0	88:4	100'6	76'1	87 8	+0'5	0.52	0.40	-0108	1:0	1'3	-0'8	64'76	48'11
	101.00	06.34	20.00	78'3"	85'6"	+0'8"	9106	9143	-8'37	0'5	1'8	-1'8	44'16	81.86
Atmm	. 977	63.3	8617	8914	77'8	+01								

<sup>.</sup> Gya and Chrebean not included.

METROROLOGICAL OFFICE, BENGAL, The 13th May 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Goot, of Bengel.

# Meteorological Report of the Province of Beng

rom.			111								6	TATIO	N OBS	BRV.	ATION	8.				
DIVINION					AIR	PRESSU	RB.	Will	D.					Tas	PREAT	DRB.				-
MFTHOROLOGICAL	Dura	OF.		Representative station.	Mean barometrio bugght, 8 A.E.	Mess reduced to sex-level.	Yaration from	Prevailing direc-	Mean wind ve- locity.	Highed dorles		Delle.	Lowest during week.		In the second	Mega marfmeta temperature.	Mean minimum temperature of week.	Mean daily tem- perature of week.	Variation from normal mean of week,	Mante, 0 A.M.
Outhea.	Poorce	000	{	Poorse Gopalpore False Point	\$9°650 29°633 29°648 29°577	\$9*662 \$9*667 \$9*660 \$9*687		SSW South- westerly. SW, SSW	886 443 374	99:9 80:2 90:3	8th 5 & 7 9th	May 	83°1 80°8 80°3 83°4	ard ard 6th 7th	May h /h May	80.9 80.9 81.0	89-3 Rt 0 61-3	98·6 83·7 80·7	+9'6 +1'1 +4'9	der der der
6	Balasore South-West M South 34-Pergy	idnap:	ro }	Balasore Sampor Island	20.001	291640	-126 -126	88 W	\$45°1 494	104'8	9th 9th		79·7 63·0	Bth	7th & May to 7th May	38-0	80'1	99'4	+87	80
A Su-	Midnaporo 24-Pergunnahi Howah	***	}	Midnapora	29:494	29:043	189 189	8 88W	1667	110'4	6th :	7th & May	79-7		A 9th May	10011	81.1	901	+81	4 . 5
ist Bungal.	Hooghly Burdwan	600	)	Burdwan	39-946	291633	-147 -131	Southerly	18179	108'8	oth	pa 80	79'4	sth	May	160-7	821% 00%	56'1 96'6	+818 J	871
BOUTE-Wast	Bankoora Beerbhoom West Burdwan	000	}	Rancogungo Berhampore	20-240	297026	161	Southerly S	196'8	110'6	9th	Po	77:8 78:3	Oth Oth	a pth	100")	81°1	94'5	+79	-
100	Neorshedsbad Nuddes Jessoys		}	Erishneghur	20:505	291643	-120 -141	883	172°6	200°8	0th 9th	88	7915 7914	4th	May May	10816	79°9 00°5	91'8 89'7	+97	801
į	Chittagons Chittagons Chittagons Elil	***	ts	Chittagong	201036	29-716	-141	630	107	98T Uboort	9th atlone	not re	76'8 peived.	Bih	e0	8819	77*7	86.0	+8%	
RADY BREGAL.	Bashergunge Roakbolly	ede 001	101	Barrieni Noakholly Furreedpore	201004 201021 201645	20°676 20°715 20°601	-136 -136	N A BW	91% 111% 130%	97'S 90'0 100'5	9th 9th 9th	May	77'8 77'8	Sth Sth	00 00	96.9 97.9	79'5 79'3 79'9	60°0 60°0 60°0	+6%	601
RADY I	Purreedpore Dacoa Commillah	000 	D64	Daces	29-666 29-666	29°081 29°761	-130 -138	88W SW	1307	971	with sin	••	97'S 76'7		& sth May	96'8	70 6 77 8	86-0 86-0	+68	2 2
1	Hymensingh Bogra	200 200 200	-	Mymonsingh	29°685 29°563	297606 297606 297607	-1100 -1100 -1100	Variable Variable	97'0 66'3	98°3 "103°8 98°6	9th 9th	64 84	76 1 75 1 28 7	oth oth	00	90'8	78·1 78·1	86'S 86'S	+812 +813 +810	8 8
BREGAE.	Pubna Rajahahyo Maldah	200	903 901 6	Rampore Beau- leah. Maidah	29°573 1 29°532	39°646 39°633	'141 '0781	S NB	110°6	100°8	etls Oth	**	77°6	and auh	a sth	967 3007	7018 70101	88.4 <sub>6</sub>	+0%	8 8
Nonza	Dinagepore Bungpore	100	994 994	Dinagopore	20°557 20°567	297070	187 187	ENE	318 00°1	991	9th	0.0	79°1 67°7	7th	90	01/6 00/9	78:3°	00:5	+810*	2
i	Julpinoree Cooch Mehar Darjeeling Hill	400		Julpigores* Darjonling	22-200	29/645	-186	3018	járs járs	887-6	oth	& 9th May	48"3	Brd	May	91/8	8016	0014	+419	
BREAR.	Parmenh North Bhagwip Mosafferpore		_}	Purneah	29'406	29*000	1190	2	18619	100'3	Oth	10	29% 80%	and	A oth May	100.0	9013	91%	- 409	
Nonza	Chumparun darun		pp1 po	Durbbungs Motibari Chupre*	20.409 20.409	20.037 20.032 20.032	-186 -186 -188	BRE Besterly	140°8 170°3 184°3	100°6 100°9 100°5	7th 3rd	& 9th	7816	oth mb	May	100%	77°8	90°6 91°7	+49	
AR.	Shahabed	ndo	{	Debres* Buzer Arrab	29°308 23°418 39°418	29 656 29 613	134 134 134	NR NNW C. T. SA	126°3 125°4 66°1	111'6 107'0 100'6	6 & 7	,	78-0 76-3 76-6	oth oth	00 00	109.1 109.9 119.9	90°7 70°6 70°6	89.8 FQ.9 89.6	+7% +8% +#11	3.3
Sours Break.	Gys Patna South Whaguts	eer eer	***	Gya	35'480	291600	-110	WNW I	1117	110.8	7th	6-	7073	06h	# 9th May	10018	8013	9617	+710	
Į.	Monghyr Bonthal Pergun Haunritagh		**	Bhagulpore Licomka Hasaribagh	20°467 20°126 27°670	29°617 29°614 29°663	-136 -136 -107	6 85W	1017 1007 7863	300°7 106°8	och sth	p4	76°6 77°6	oth oth oth	e och	100°4 100°6	79*6 80*8	91.0	+7°3 +7°3 +6°7	5 5 5
NAOPUR	Lobardusyn Maulinom	***	}	Ranchee	27 '884	201619	'007	Colm	146'6	1000	Stab	70	707	9th	May	100'1	70-0	56.9	+8'4	
Anna 9.		000		Sibnagor Dhubsi	201074	\$9*481 \$9*781 \$9*700	-140 -140	Wa W MB Northerly	- 118'8	111'8 @'0	7th 3rd	& 7th May	75°7 70°4 71°6	and and	00 00	99.0 99.8	61°6 78°8 78°0	88.0 81.8	+613	
- 1			1	Bilehar	29:000	89713	-'131	Calm	-	100-61	44h	10	78'8	seh	<b>61</b>	90/8	7410	85-01	, 49'21	

Meniandem, —businery.—The normal means of air pressure and busperature are the arithmetical average or means of the randing during the same period for the fact that atmosphere is expressed at percentage, antersted air being presented by 100. A clear sky is denoted by a and an overcast sky by 10. The must contain the secretary antersted air being presented by 100. A clear sky is denoted by a and an overcast sky by 10. The must contain the secretary antersted air being presented by 100. A clear sky is denoted by a and an overcast sky by 10. The must contain the secretary and the secr

the week ending Friday, the 9th of May 1890.

							DIAT	RIUT OB	RHRVATI	ONS.				11
_	ä	1 2	1	,				RAI	SPALL.					
	smount wrek.	100	Op	WRYE.	Otz	on lat of m	onth.	Sinc	ce 15th May	1860.	Done .	le per	Copresentative	District.
Bt B A. H.	A ruenge cloud at 8 A.M. for	Mainfall of week observing station.	Mean for dustrict.	Mormal mean.	Rean for district.	Morrael maga.	Variation.	Mean for district.	Normal Boan.	Variation.	Average number of rainy days.	Normal number of rainy days.		,
N IN	416	NII NII NII	2811	0.04	inii	10.00	-0.69	77'03	8-6199	+18-70	010	1.3	Poorse Gepalpere Pales Point	Pooree , ,,
10	3.0	261	Nil	0.74	Mil	9'61	-0.81	68'44	88-78	+1271	0.0	13	Cuttack	Cuttark
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	1'1	2010	016	1-17	0:27	3185	-1 28	46:57	88:85	-6:18	013	1'9	Burdwan	Burdwan
10	110	3(1)	Mile	0.88	Nil	1'06	-1'08	87'67	86136	+1:21	010	179	Hankoora	Bankoora
	0.0	,2417	3/12	0.79	9:63	0.81	-0.90	84 81	85.38	-1'96	0.0	170	Raningunge	
7			0.04	1:20	19100	3'46	3'38	537-05	85106	-5.03	0.3	216	Berhampore	Moorshedabad
3	27 31	N41 e-00	0.14	1'30	18.9,	1:86	-1'64	28.92	8667	-9:16	018	213	Krishnigher	Mudden
	10	נואני	o <sup>l</sup> Sa'	1100	10100	2914	-1'54	08-83	62101	3'19	0%	3-6	Jemore {	James of A
8				1.60	Nil	8100	-2700	16(190	198190	-15'00	0.0	310	Chittugong	Chittenana
9	0.0	Nii	Mili	2 40	24.20	2796			0217			3:8	Domogici	Chitingons Hill Trac
	818	. Mil	2011	1-00	0126	19198	-41 197	(8740	86161	-2'91	0.0	3:7	Barrieni	Backerguage
	110	iNII	MI	194	'ò-88	<b>-3:73</b>	<b>→3</b> 140	Ø0196	119'08	-10-27	0.0	910	Nonkholdy	Nonkbolly
A	38	Nii	Mil	2'01	0188	2158	-2'01	60.00	66.96	+8'14	0.0	316	Ferreedpore	Farreedpore
	0.0	MH	ivit	278	178	8.90	-1:67	86'76	71-22	+13.93	0.0	9.8	Decen	Dades
	416	0°05	1.67	8:60	3.98	9:27		65.00	68.64	-17'29	1.3	319	Committah	Tipperah
1	011	1717	181	8.01	1'86	19:81	-0°96	10-84 10-84	77:17	+21:54	1'6	217	Mymenologis	Mywemingh Bogra
	8-7	0108	0'05-	1-06	1'04	9100	-1'04	82:44	60:93	+1'83	1.0	2.0	Servigumpo	Pubna
	17	0198	0'88	1:94	-0-67	11:53		JD-36	88700	+0'86	07	21	Rampore Standals	Rajobahyo
	26	. 10/11	0.42	0100	9.41	1'08		dores	87:36	-16'70	018	1.7	Maldah	Maldah
	6-6	1'79	0107	0100	0'81	1118		d0134	80190	-1.44	0%	1'8	Dinagepore	Dinagepore
	834	6'60	9100	1'07	3:30	23.00	0:30	\$2 06	83.184	+10.51	8'5	27	Rungpore	Eungpere
	816	0:36	1'00	2'66	11:00	*8*05	-1'23	187'16	280'64	+6 80	816	8.8	Jalpigoree{	Julpiroree Cooch Behar
1	in I	0'78	inst	1-00	1:37	3194	+0-97	139-91	181'20	+8163	818	8'6	Darjeoling	Darjeeling Hill Tracts
H	210	. Mil	020	orbs	0110	1:30	-3.00	75'06	88*90	+18'98	0"4	1'8	Purnesh {	Purneah North Bhagulpore
	0.0	200	Nil	0.90	7711	10147	-0.43	49'23	45'54	+3'00	0.0	0-9	1	Mosufarnore
	910	2011	2011	0.91	- 201.13	6:59	-0150	69:36	44160	+5-67	0.0	210	Durbhungs	Durbhunga
	0.0	Nai	2011	0150	Nil	9'80	-0'80	66'11	49'19	+14'90	0.0	819	Motihari	Chumparun
	0.0	Nil	ame	0°87	:Nil	10'01	-0.68	40131	44'81	-6.10	0.0	1.0		Sarum
	0.0	Nil Nil	Mil	0121	Nil	0°37	-0'97	40:58	41:34	-0.81	910	0.6	Dohree Buzer Arrah	Shahabad es es
	1-7	NII	Mit	0.34	Nil	0.87	-0187	87'86	48:86	-5'87	0.0	0.7		376 w
	0.0	3611	201	0768	2813	0.48	-0148	43166	48 73	+0198	00	8.0		Patna
	2:0	2011	Bil	0'68	NII	0'47	-0 47	63.13	48700	-1'60	0.0	1'0	Bhagulpere {	outh Bhagulpore
					0.00	0.94	-0.78	58'85	68:41	+3'97	0'8	1'6	-	onthal Purgunnahe
	0.0	Nii	0000	100	NII	0.00	-0.01	43%4	69:77	-0:13	0.0	1.3	Hazaribagh	lesaribagh
	0.0		34	0%7	Nil	0137	-0'37 -0'd2	40.04 80.04	81.41	-5'82 -10'48	0.0	1.1		ohardungs
	0.0			1'01	NII	1.08	-1.00	40-RH	86:36	-8.49	000		Chychaeen S	ingbhoom '
	819	2011	Nit	7.01	4411	1 00							Sibenger	
	6'6	4191												
	7'3	0.10									1		Silohar J	

of years. The variations are negative when the mean for the week is less than the corresponding normal mean, and positive when greater, and the part of the chy covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means calling claim amount chores and the part of the chy covered, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means called amount chores are the part of the covered average of the rainfall return received in the chartost, 4.0., from total rainfall as the subdivisional

# Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890.

					R	AIWPALI	10			To	TAL				
Meteorological division.	District.	Station.	Saturday, 2rd	Sunday, etb.	Monday, 8th May.	Tuesday, 8th May.	Wednesday. 7th Bay.	Thursday, 9th May.	Priday, 9th May.	Number of rainy days.	Minfall of week.	Total rain- fall since lat of month.	Average total min- tall from lat of month.	Total gain- fall since 18th May 1889.	Average Francis from 14 May (
Oarma	Pooree	Pooree Khurdab Banpur False Point Gop Satpars Pipii	886161	020000 016186 64040 074127 660400	000000	000 mg	000 004	000 000 000 000 000 000 000 000	**************************************	Nil Nil Nil Nil Nil	NII NII NII NII NII	NII NII NII NII NII	0 51 0 73 0 61 0 85 1	80°03 81°00 70°05 77°68	89 61 49 1
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Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890-could.

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Division.	District.	Mation,	Saturday,	Sunday.	Monday, 2	Toroday, of	Wednesday.	Thursday, 0	Priday.	Number o	Reinfall week.	fall since lat of mouth.	fall from lat of mouth,	15th May	May to
let Rumat.		Gournaddi Bauphai	000 140	401		1 ******	155820		*******	Nil Nil	Nil Nil	NR NO	2	95.99	P
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	Hill Tipporah Tipporah	Agartola Comilia Chandpore Brahmunberia Bramchendre-	1'38	1°29 0'03	101505 101505 -10150		900000 90000 000000 000000	******	44444 44444	NII S	2:43 0 65 N:1 3:01 1:02	8:43 9:83 1:10 8:59 1:00	8:53 2:10 3:50 3:50	67.56 66.61 73.69 61.53	75 60 85 60 86 30 76 19
		pore. Nacirnagar Daudhondi Kusha Laksham	6'30 8'40	0.01	021040 021040 02111	600	011100	900 av	******	Nii Nii Nii	4'80 Nil 8'40 Nil	4:30 Nii 4:50 1:75	P P P	85'44 60'03 78'50	9 9 9
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<b>.</b>	ilajehabyo	Beauloch Nattore Naugaun Lalpure	0.35	\$04.45 \$04.45	30.1	*************	700-74 100-24 100-24 100-24	000100 000100 -00 00	**************************************	No.	N <sub>1</sub> 1 0'35 1'52 N <sub>11</sub> N <sub>11</sub>	Nil 0:36 1:48 0:18 Nil	1.28 5.18 0.87	49°89 67°61 61°93 40°121 43°36	87'51 61 07 84'87 ?
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	Cooch Bebur Unriceling	(Nagrakatta).  Dinintta  Counh Heber.  Mickilgunga  Manathanga  huns  Hiliguri  Darjesing  Kalimping	0'00	0°12 0°02 0°01 0°03 0°04	0:14 0:05 1:23 0:30 0:55 6:37	1'40 1'10 3'96 0'17 0'53 0'25 0'03	0°17 0°25 0°08 6°30 0°17 0°28 6°10	0.08 1.25 0.38	0'03	6 3 4	1.76 1.83 4.04 1.50 1.73 0.04 0.73 0.89 1.75	1.76 1.55 4.06 1.50 1.73 1.73 0.73 0.69	3'05 3'84 2'01 3'74 4'10 0'87 2'44 1'45	107:47 138:03 130:58 120:38 201:69 127:10 131:14 Portss 74:47	105 69 126 NE 114-17 12: 196 205 78 101-49 116-25 91 05
doma Benga	Purneah	Kurseong  Kinsengunge  Arrarenb  Putnesh  Conducte  Baiarampore  Mattari	200000 200000	****** ***** ***** *****	001000 001000 001000	0.78	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	030774 030704 030705 030705 031070	400.00 400.00 400.00	NII NII NII NII	o'98 Nil Nil Nil Nil	0 95 Nil Nil Nil Nil	1'59 1'66 1'12 7	103 DA 80 JO 63 BB	74 90 67 96 65 97 8
	North Bhagul- pore.	Kaliaganj Maddapoto Bnopoo: Protabganj	800+44	101000 101210 101001 10 000	110-00 1 100-102 100-102 100-102 100-102	1.78	000 000	000 000	4000000 400000 400000 400000	Nil Nil Nil	Nil Nil Nil Nil	NII NII NII	9'16 1'01	61:71 65:03 80:17	82°38 50°54 ?
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Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 9th of May 1890-concid,

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			I	1 48	4	45		8th	1 2	5	of	Total rain-	Average lots rain-	Total rain-	Average rainfall
Matempolomes Division.	District.	Station.	Raturday. Nay.		Monday.	Tuesday.	Wednesday.	Thursday.	Priday.	Number of	Rainfall week.	fall since hat of mouth.	lat of month,	lath May 1889.	from 18th May to date.
Nonen Bunan -concended.	Chumperus	Bothari Bettah	0 h = phin	441	****	20 - 404 44 - 51		****		Nil Nil Nil Nil	NII NII NII	NII Nii Nii Nii	0.00 0.84 5	76-58 88-69 71-18 81-94	47 100 50 ds
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P C &.		Hazaribagh Semtaturah Mahudi Kila Jacoura Hills Barbi Chatro Karagdaka	000000 000000 000000 000000 000000	100 100 100	40 * · · · · · · · · · · · · · · · · · ·	211.04 222.000	000 xg - 000 xg - 000 xg - 200		0,000 20,000	No.	No No No No No No No No No No No No No N	NH NH NH NH NH NH	0.84 0.12 0.10 1	49'61 36'86 43'46 82'03 47'09 40'06	40 4 40 4 44 7 45 9
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CALCUTA, the 13th May 1890.

SUMMARY OF THE METEUROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 9TH OF MAY 1890.

VRAY unusual weather conditions have prevailed throughout the week, pressure, temperature and rainfall all differing largely from the normal. Over Bengal very little change has taken place, wind circulation being day after day south or south-west in Lower Bengal, south-east or east over the northern half of the province, and west in Cintia Nagpur; the sky has generally been clear and temperature high; rainfall has been almost entirely confined to

East and North Bengal.

At the beginning of the week pressure was about a tenth of an inch below the normal, after a moderately rapid fall in the north-west, but on Sunday and Monday, the 4th and 5th, it again rose, and was very nearly normal on the latter. Temperature was more than 5° above the normal over the northern half of Bengal, but as rain was falling in North Bengal and scattered showers in East Bengal during the first three days of the week, the high temperatures were during these days chiefly confined to Behar, Chutia Nagpur, and South-West Bengal. After the 5th no more rain fell in East Bengal, but the somewhat scattered rainfall in North Bengal continued throughout. On the 6th a very rapid fall of pressure set in over Bengal, Burmah, and the Bay, resulting by the end of the week in a very large defect over the whole of this area. On the 7th weather became stormy on the Burmah coast. of pressure was very rapid, wind force increased, and circulation became cyclonic round the depression, the centre of which was to the west of Diamond Island. Rain, generally heavy, fell at the Burmah stations. Defeat had increased to nearly a quarter of an inch over the whole of East and North Bengal. The depression crossed the coast shortly afterwards, moving in a north-north-easterly direction, and broke up in Burmah on the following day. The chief influence of this storm on the weather in Bengal was seen in the calm weather while it was forming off Diamond Island, and afterwards when it had passed inland in the very strong winds which blew over East and South-West Bengal on Friday. The rain which has since been falling in East Bengal may also be due to the disturbed condition of the atmosphere consequent on the breaking up of the storm. During the last two days pressure was steadily rising, but defeat was still over two-tenths of an inch in North Bengal, and was generally more than three-twentieths of an inch elsewhere. Temperature continued to be largely in excess, nearly 10° in South-West Bengal and from 6° to 10°

Pressure - As stated above, has been generally below the normal. Commencing with a defect of a tenth of an inch, it rose till almost normal, after which it fell very rapidly, giving in two or three days a defect varying from 0.15 inch to 0.25 inch. Means are, therefore, very largely in defect everywhere, generally more than a tenth of an inch, and in South-West, East and North Bengal and Assam nearly 0.15 inch.

Temperature—Has continued largely in excess throughout the week, and some very high maximum temperatures have been registered. The following stations have all reported high maximum temperatures have been registered. The following stations have all reported temperature over 110° some time during the week:—Cuttack, Midnapore, Bankoora, Raneegunge, Dehree. Gya, Bankipere, and Chyebassa. In Behar these highest temperatures were on the 6th and 7th, but elsewhere on the 9th. With the exception of the coast stations, temperature has at times be n everywhere over 100°. The mean excess is almost everywhere more than 5°, and in South-West Bengal ranges from 7° to 9°. The mean for South-West Bengal is 92°, South Behar 94.2°, and Chutia Nagpur 90.5°. Elsewhere it is under 90°. The largest mean excess is 7° for South-West Bengal, South Behar is next 6.8°, Chutia Nagpur 6.1°. East Bengal, North Behar, and Assan more than 5°. North Bengal, 4.2°. Chutia Nagpur 6.1°, East Bengal, North Behar, and Assam more than 5°, North Bengal 4.3°,

Rainfall-Has been chiefly confined to East and North Bengal. In the latter showers fell every day of the wook, and in the former during the first three days, while in the other districts very scattered rain was received. In Orissa and Chutia Nagpur no rain fell, in Behar less than a tenth of an inch, in South-West Bengal one-tenth, in North Bengal 1.18 inches, and East Bengal .55 inch. In South-West and East Bengal defect is about an inch-aud-a-half, and in the other districts about half an inch. The heaviest falls in North Bengal ere in Rungpore and Cooch Behar, Ulipore 6.4 inches, Mickligunge 4 inches, Rungpore

3.6 inches, and Bhowanigunge 3.5 inches

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 9th of May 1890:—

		•	Tunes	EBATU	BB					B	ATHTA	Rolls -				
	wook.	week.	A voruj	res for	week.	aboys or week.		Of wee	nk.	B	niny de	Lys.	Since of soc			358b,
MUTBOROLOGICAL DIVISIONS,	Highest observed during	Lowest observed during week,	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week below normal mean of	Average.	Normal average.	Variation.	Average number in week,	Mormal average nam- ber in week.	Verbien.	Average.	Horaid) average.	A verage.	Hormal average.
Ornates	150"6"	79 7	96'3	81.8	88 %	+8%	NII	0.87	-0'87	010	1.2	-1.2	NH	1100	64'78	67.78
houth-West Bengui	110.5	77 0	103 2	80%	92 0	+7'1	010	3164	-1'84	0.3	21	-1.0	0.23	1'00	38'15	10.23
Bast Bengal	100'8	76'8	98'0	79'6	8318	+5'3	0.22	2123	1'66	6.9	2'5	214	1'03	5.28	84160	84'90
North Bougal	101.3	67"7	93'1	77'0	85.0	+4'3	1.10	1100	-00	1.8	2'8	-07	1.80	E-00	79181	76'67
North Behar	100'3	66-8	108.0	76'9	9018	+5%	9.08	0164	-0.88	0"1	17	-1.0	0.06	9.80	58'88	Si'A1
south Senar	111'6	76'0 1	107'9	30'5	9612	+6'6'	0.03	0145	-0.40	0.1	1.0	-0.8	9106	6.40	66'77	45'61
Chutia Nagwur	106.0°	74:91 1	163'40	77'5°	80 %	+6:10	NH	0-67	-0'67	0.0	1.3	-13	МП	0.000	64"16	68.71
Am in	102'62	70'4	9114	7416	6079	+6'8										

\* Chyobean not included.

METEOMOLOGICAL OFFICE, BENGAL;

C. LITTLE,

The 13th May 1890.

Offg. Meteorological Reporter to the Goot. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 4th to 10th May 1890.

					A. E. Nuoed			TEMP	BRATURE.			E	TORONSTRI	r.,	, E
36	(Ue)	-	Date.		Pressure at 10 corrected and rac to 32" Fahr.	Daily mean.	Marinum.	Range.	Maham.	Pry bulb at 10	Wet bulb at 10	Vapour tension at 10 a.m.	Per point at 10 A.M.	Bumidity at 10	Rainfall part 24 ho
					Inches.	•	•	•	•	0		Inches.	•	%	Inche
11 22 11 10	1800		4th 5th 6th 7th 8th 9th	001 000 001 000	29·741 722 •667 •567 •567 •607 •636	69-0 90-2 91-5 92-4 95-6 90-6 92-7	97-2 100 to 103-0 104-0 104-2 100-0 103-0	16:4 19:6 28:0 23:2 25:2 18:8 20:7	80·8 80·4 80·0 80·8 61·0 81·2 82·3	91·6 94·6 94·6 94·6 95·6 93·4 94·6	82-5 82-5 83-5 82-5 82-5 81-5 81-5	989 948 999 948 935 915	78 9 77 6 79 2 77 6 77 2 76 6 76 1	67 60 63 69 66 58	Na

The mean 10 a.m. pressure of the seven days	S	001	***	29.642
The mean temperature of the seven days The extreme variation of temperature	***	***	***	91.4
The maximum temperature	100	• • •	***	26·2 106·2
The mean 10 a.m. relative humidity of the	even days	•••	• • •	60
The total fall of rain from 4th to 10th May	1890	***	***	Nil.

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Gost. of India.

METEOROLOGICAL OPPICE, INDIA;
The 13th May 1890.

#### MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 26th April 1890.

#### BIRTHS.

The births registered during the week ending with Saturday, the 26th April 1890, in twenty-seven principal towns of Bengal, correspond to an annual rate of 16.4 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 4.1 lower than the average rate of the corresponding weeks of the past five years, and is also lower than the rate of the corresponding week of any of the past five years, with which comparison is instituted, eide the figures below:—

	1868.	1886.	1807.	1989.	1880.	Weekly average of five years	1=90.
Ratio of births per 1,000 of the population per	2811	19:1	19:1	1910	20:1	20:5	16:4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:-

					1	WHEES !	Rabing.							WERES	RYDING-	
	Tow	<b>71.</b>			6th April 1686.	12th April 1880.	19th April 1890.	26th April 1800.	To	WES.			5th April 1886.	12th April 1690.	19th April 1890.	26th April 1890.
Rurdwan Midnapore Hushil and therampore Utterpera Howrah Bali Kishnagar Rantipure Jessoco Rantipure Jessoco Rantipure Jessoco Rantipure Jessoco Rantipure Jurjiling Dacca	984 150 101 101 100	00+	480	800    	25 p to 18 m 5 m 6 m 6 m 6 m 6 m 6 m 6 m 6 m 6 m 6	10'7 10'8 24 4 11'8 14'8 14'8 14'8 15'0 20'9 17'5 18'4 23'6 14'8	30'5 10'0 21'6 87'3 18'9 17'6 10'0 22'7 24'0 3'5 18'4 31'5 14'N 14'N	22'9 17'0 38'5 9'8 1'4 13'2 19'0 7'0 6'1 38'2 7'4 23'8	Naraingan) Littlescope Contillab Parina Gya Lirrah Monufferpure lumbianiga Chingen Hinguipore Honebyr Pursicali Pooci	90. 1.1 1.1 1.7 1.7	*** *** *** *** *** *** *** ***	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	20.7 6.7 50.1 6.8 10.4 14.2 18.7 18.1 11.1 10.0 20.8 13.9 12.6	26-8 0-6 13-0 19-1 10-8 19-2 29-0 14-5 17-3 16-8	41'4 2'3 11'6 7'8 15'7 14'4 13'5 21'2 21'7 20'3 26'3 21'0	2411 3011 2111 1011 1011 1011 1011 1011 10

It will be seen that last week the highest birth-rate was returned from Purneah (38-1) and the lowest from Kishungar (3.8).

DEATHS.

The deaths registered during the week under review correspond to an annual rate of 29-2 per 1,000 of the population. The rate of the week is 3.8 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, -vide the figures below:—

	1805.	1896.	1697.	1889.	1849.	Weokly arterne of five years.	1590,
Ratio of deaths per 1,000 of the population per		2318	23'0	19:6	2418	25:4	39:1

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1.000 of the population:—

		WHERE I	ENDENO-				-	Whinks 1	INDING-	-
Towns,	5th April 1990.	12th April 1450.	19th April 1:90.	29th April 1699.	Towss.		5th April 1896.	12th April 1690.	19th April 1996.	Saib April 1690.
Burdwan Muttapere Muttapere Hughth and Chicoweah Interpret Interpret Howersh Hall Hall Austriager Recognit Bassingere Janeure Recognite Bassingere Languere Languere Languere Languere Languere Languere Languere Languere	27-5 12-5 12-5 27-13 27-14 27-15 10-	3210 3411 6017 3116 2413 2115 2416 1710 1110 477 611 3414 2411 2411	9900 901 501 503 4711 8070 9111 1114 6 9 815 4518 1518 1518	2819 1692 4073 4779 1075 1075 776 873 1814 3618 1097 4573	Nersinganj Chittezong Condish Potna Gya Arrich W. sufferpore Purchance hupra Shugusipore Monghyr Purcesh Poort	677 000 670 000 670 000 670 000 670 000 671 00	47 27 0 11 4 70 8 9 6 13 4 17 3 18 1 8 1 8 1	914 94 19:3 23:6 17:0 12:3 18:1 21:3 21:3 38:0 31:2 38:7	15 \ 9.6 11 6 80 6 40 98.7 18:2 28:3 9:1 20:0 28:9 84:6 88:7	911 911 11 0 40 0 54 2 33 6 19 6 22 1 24 1 37 1 81 1 64 1

It will be seen that last week the highest mortality occurred in the town of Darjiling (103.7) and the lowest in Santipore (5.3). No deaths were registered during the week in Ranaghat

Measured by last week's mortality, the highest annual death-rates from cholera, fever and other causes were as follows :-

Cholera.		Fever.		Other cau	868.
	Ratio		Ratio per malie.		Ratio per milla.
Hughli and Chinsurah Patna City Cliupra Bhagulpore Howrah	91'2 20'8 6'0 4'5	Darjiling Utterpara Arrah Rampore Beaulesh Purneah Poori Gya Monghyr Durbhanga	85 9 87 7 82 8 31 5 27 7 26 2 20 8 20 8 20 8 20 8	Serampore Bhaguipore Monghyr	17:7 11:8 10:8

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5.6 from cholers, against 5. per 1,000 in the preceding week; 7 from small-pox, against 1.6; 15.2 from fever, against 14.6; 1.7 from bowel-complaints, against 2.4; 4 from injury, against 2; and 5.6 from other causes, against 5.2 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.

According to Class.

According to Age.

	Ratio per mille.	Ratio per mille.		Ratio per mille.
Males  Females  Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	30.7 Hindus 27.6 Mahomedans Other classes	29.6 76.8 8 10 15 20 80 40 50	nder 1 year and under 5 years 10 15 20 80 40 50 60 rears and upwards	106·7 37·5 16·9 9·2 16·4 18·5 28·4 20 8 31·5

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGO, Dip. Publ. Health, Camb.,

The 12th May 1890.

Sanitary Commissioner for Bengal.

		G <sub>1</sub>	POPULATION	TOM.				BIRTHS											HOR	HORTALITY		ACCORDING	OL OH!	1						
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2	Midnepore	14,957	10,000	22,080			See.	210 018	10.6	17.0	22	-	:	910	gre re	1	10	0	100	-	_	100	•	2.0	1.02	-	01	67 67	E	
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5	Serampore	11,560	12,887	22,000	8	00	89	9.0	6.8		186	-	<b>60</b>	01	01	-	0.	2	=	6.8	9.61	3.9	17	4	1.00	17	80	12	91 93 93	
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Paramothy   Para	- queda	Comillab	:	i	ert.	01	-	:	1	-		:	-	:	1	1	1	pt :	:		1	;	1.921	;		1	_	1.10	1	i	1
Gyp.          10         69.1         186	9638	Palme Olty	2		8	2					94	i	2	=	20	90	Po	90	2	81	2		9.031	**	30.3	8.83	9.28		2.2	Ligg	90.0
Manufleton	20 mm	Gya	1		*	40	-		_	-	9	-	12	•	*	:	84	*	144		**		D. W.S.	27.7	B	i	18.0	1.01	1.4	81.8	47.0
Househoper   15   2   1   1   2   2			\$	:	2	0	10		+0	_	1	:	•	01	10		:	*	10	94	0)	40	161.3	10 10 10	<b>9</b> .08		b d		7.09	97 81	4.02
Purichemps	onaffer pore	Nousillar port	-	i	138	99			-		10 20		100	pet	01	:		=	91	*	-	60	12	12.0	1.53	ī		6.1	14.9		16.0
Chaughtan 17 6. 18 1	urthangs	Parbbangs	ż		8			_	-		19	-		P*	44	=	-04	_	99	00	84	016	300 6	8.79	10 pt	4.6	20.0	20	14.0	14.0	23.7
Bharalpore 23 13 14 24 25 2 2 7 2176 516 517 168 517 207 207 207 207 207 207 207 207 207 20	6475	Chupra	i	:	22			1	1		90	•	69	•	-	-	amo	09	p0	-	89	69	110.6	9.00	1- 10	19.6	15.0	16.0	67	9.6	7
Parameter         13         14         15	hage bore	Shagashore	E	:			7-1	1	-		94		153	•	76	94	03	+0	1/3	01	g-1	-	217 6	97.6	2.12	16.5	67.28	90	16-8	90 90 91	24.5
Purposh 8 7 1173 6475 8 6 1 1 8 6 1 1 8 6 1 1 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 1 1 8 8437 8 6 6 1 1 8 8437 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ordebyr	Monchyr	1	:			-		-		9	1	•	•	ent	i	91	get	9	•	1	E	-	75.2	7.6	- 1	27.28	10.1	133	90 22	13.1
Peerl			-	i	61					-	22	:	<i>(</i> =0	97			1.01	440	90	94	-	:	1837	1,00		,		18-8	20.00	17.92	5.02
Tores 1 20's 20's 57 50 57 50 67 100 100' 100' 57 150' 150' 57 50'0 51			į	i	2	-	:	2		9.0	1							00	ю		-	es)	2.072	í		1		20.52	2.00	9.59	27 28
		Toras.		1	-	1	1	1-	1 24		1	-	-	13	12	22	2	R	120	3	5	13	1167	64.0	100	E	15.4	18.2	9.23	8.04	103

# CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 10th May 1890, as compared with the corresponding week of the previous year.

			WHEE EF	IDING RATURD IN MAY 1890,	AT, THE	Wesk en	THE MAY 1889.	AY, THE
NATURE	of Cargo.		Number of boats,	Weight of curgo.	Tollage,	Number of boats.	Weight of oseno,	Tolinge.
			No.	Mds.	Ra.	No.	Mds.	Re.
Rice and paddy Jute Firewood	900 941	440	269 23 149	76,185 12,450 93,275	1,189 187 1,359	163 7 61	43,426 8,.75 27,125	694 61 415
Other articles	Total	400	1,148	1,95,060 8,76,160	2,776 6,511	766	2,85,125	3,280

# Weekly Return of Traffic Receipts on Indian Railways.

# BAST INDIAN BAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 1,626 miles open.

	<b>Q</b> DACHING	TRAFFIC.			PPIC.	Other earnings	Total earnings.	TRAFFIC	TRAIN-MIL	ed RUN,
•	Number of passespers	Recorpte		Weight oursied.	Receipta.	(estimated).	i otal earnings.	Coaching.	Merchan- dise.	Total.
		Re. A	у.	Mbs. s.	ME A. P.	Rs. A. P.	Ro. A. P.			
Total traffic for the week Or per unite of railway	273,046	2,66,774 R 174 14		34,41,093 30	6,31,063 13 0 613 10 10	\$1,100 B 0 13 13 B	9,18,947 12 0 002 6 3	06,0011	100,4911	166,582)
For previous 17 weeks of half-	4,388,863	40,80,646 7	0	4,49,08,071 10	1.04,49,165 0 0	3,38,564 9 9	1,57,68,176 0 9	1,115,106	1,638,556	2,751,666-}
Total for 10 weeks	4,057,404	82,47,420 18	0	4,73,46,765 0	1,10,80,228 12 0	3,59,474 1 9	1,66,87,123 12 9	1,181,1972	1,757,045}	2,915,242]
Companison.										
Total for corresponding week of provious year Per mile of railway correspond-	903,13%	2,64,990 10	0	27,61,66d 0	6,65,675 13 6	16,082 13 G	9,49,739 5 0	63,337	144,068	167,683
ing week of previous year	*****	173 11	- 4	P 0-0 0-0 0	437 0 4	11 13 5	. 622 9 1	2000	-0.0	644461
Potal to corresponding date of	4,780,400	84,46,006 0	3	8,03,08,484 0	1,00,98,149 18 8	2,96,830 8 8	1,67,39,665 5 1	1,187,494	1,747,875	2,004,000

Approximate Statement of gross receipts of the East Indian Bailway, prepared in accordance with Public Works
Department Circular No. XXI, Bailway, dated 23rd July 1883.

	e pon wree To May 1980			TO FOR WERK IND MAY 1890.			PRIL 1889 TO 4T MAY 1889.			APRIL 1890 TO HAT 1890.		Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Por mile worked.	Mean mileage worked.	Total receipte.		Meen mileage worked	Total receipts.	Per mile worked per week.	1890.	decembe in 1690.
2,6364	Ro. 9,40,729	Ra.	1,528}	Ro. 9,18,946	Ra.	1,686)	Re. 45,18,779	Ba.	1,8251	Ro. 45,18,536	Ba. 502	Re.	Ro. 96,236

# PATNA-GYA STATE BAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 574 miles open.

	COACHEN	TRAFFIC.		MERCHAPITOR TRAFF		W 201	RAL	Other earnings	Total comings	TRAFFIC '	Train-mile	D RUE.
	Number of passengers.	Receipts.		Weight carried.	Recei	pti	ha .	(estimated).	10001-000100	Coaching.	Merchen-	Total
		Ве. д. 1	P.	Mon. s.	Ba.	٨,	P-	Bs. A. P.	Re. A. P.			
Total traffic for the week Or per mile of railway	13,601 238	6,099 4 105 19		49 585 10 866 50	4,127 72	16	8	41 4 0 0 11 6	10,268 7 0 179 8 3	1,511	003	8,804
For previous 17 weeks of half-	228,481	1,16,782 15	0	8,23,560 0	63,045	8	0	687 19 0	1,70,406 3 0	98,400}	12,047	40,846
Total for 18 weeks	242,062	1,22,689 3	0	8,83,106 10	87,178	7	0	699 0 0	1,80,784 10 0	80,0094	13,930	40,939
COMPARISON.			i									
Total for corresponding week of provious year	11,830)	5,302 15	9	49,953 10	8,696	11	0	30 11 9	8,989 8 6	1,406	1,384	8,600
Per mile of railway correspond- ing week of previous year	302	92 11	6	B78 20	63	6		9 11 1	180 12 11	*****	*****	000 000
Potal to corresponding date of	259,544)	1,40,888 7	0	7,48,567 80	44,656	0	0	1,616 11 9	1,86,869 10 9	32,229	12,804	45,000

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. AXI, Railway, duted 23rd July 1888.

	TO FOR WES			TS POR WORL			APRIL 1859 TO MAY 1889.			PRIL 1890.		Total	Total
Made entrage worked.	Receipts.	-	Mean mileage sorted.	Receipts.	Per mile warked.	Mean mileage worked	Total receipte.	Per mile worked pur week.	Moan mileage wurken.	Total receipts.	Per mile werked per week.	increase in 1800.	docrenso a
	Re.	Re.		Bo.	Rs.		Re,	Rs.		Be.	Ro.	Ro.	Ma,
872	8,900	167	871	10,265	160	571	45,000	171	671	82,194	102	8,166	*****

# TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for weak ended 3rd May 1890, on 331 miles open.

	Содстів	o Trappi	ic.	Merchaspier Traf		Other carmings	Total	TRAFFIC	TRASE-MIL	ED ROW.
	Number of passengers.	Recei	pts.	Weight carried.	Receipts.	(setimated).	earmogn.	Conching.	Merchan- diss,	Total
		Re	. A. P.	Mos. s.	Ha. A. P.	Ro. 4. 9.	Rs. 4. P.			
Fotal traffic for the week It por mile of railway For previous 17 weeks of half-	19,972		13 0 14 9	11,081 0	405 4 0 18 6 3	8 6 0	8,70 <sup>M</sup> 7 0 256 8 11	900	78	*****
7607	379,463	1,02,617	6 0	2,44,188 30	8,384 6 0	177 5 0	1,11,840 1 0	18,000	2,747	16,17
Total for 18 weeks	859,834 -	1,00,111	3 0	2,50,219 30	8,760 10 0	185 II U	1,17,007 8 0	15,986	1,895	17,78
COMPARISON.			-							
otal for corresponding week of previous year ar male of railway correspond-	\$2,1844			9,280 30	209 6 0	10 1 6	6,884 12 0	913	97	96
otal to corresponding date of previous year	481,392)	346	8 7	1,72,758 10	15 B 10 6,250 18 0	0 7 3	1,17,021 9 8	16,607	1,103	17,7

Approximate Statement of gross receipts of the Turkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 28rd July 1883.

	TO FOR WHEE		Rucary	TH FOR WHER SED MAY 159	RWDING	TOTAL	RECHIPTS PRO APRIL 1989 TO 4 May 1889:	m lor		PRIL 1984) TO 31 MAY 1890.		Total	Total
Mean pulsage worked.	Haosipia,	Per mile worked.	Mean mileagre worked.	Resulpte,	Par mile worked.	Mean mileute worked.	Total receipts.		Mean inilenge worked.		per mile worked per weak,	increase in	decrease to
	Ro.	Ro.		Me.	Rs.		Re.	Re.		Be.	Ba.	Ba.	Za.
2000	8,867	948	2023	8,700	297	285	30,768	200	201	86,796	290	000 ***	960

# EASTERN BENGAL STATE BAILWAY.

(Inoluding N. B., Dacca, K. and D., and Assan-Behar Sections.)

Approximate Heturn of Traffic for week ended 28th April 1890, on 747 miles open.

	COACRIE	O TRAFF	10.	MRRCHAN		AND MIN		AL	Other on:			Total			TRAFFIC	TRAIN-MILE	BUN.
	Number of passongers.	Conchi		Weight carried.		Becei	pta,	,	stonus-b			earning	<b>18</b> .		Coaching.	Merchan- duc.	Total.
		Bo.	A. P.	Mos.	8.	Re.	۵.	P.	Ro.	A. P.		Re. A	. 1	P			
peral traffic for the week	147,556	78,300 101		5,07.970 787		97,330 , 130	0	0	15,590	0 0		1,88,210	0	0	22,997	20,883	22,510
for previous 16 weeks of balf-	2,545,160	19,88,000	0 0	91,89,110	0	14,64,709	0	0	3,05,084	0 0		*32 20,753	0	0	\$60,881	473,40.	532,693
Total for 17 weeks	2,002,710	13,25,300	0 0	97,77,680	0	17,62,020	0	0	a,90,094	0 0	-	34,10,962	0	0	891,418	803,975	950,223
fotal for corresponding week of previous year	156,557	60,208	0 0	8,48,597	0	84,053	0	0	\$3,716	0_6		2,74,060	0	0	\$1,463	23,205	66,781
ing period of previous year  Stal to corresponding date of previous year	186	12,03,410		84,80,430	-	196	-	0	†11 5,09,389	0 0		30,19,044			866,230	413,680	775,02

Audited up to week ending 1st March 1890. Excluding steamer carnings.

# FINANCIAL YEAR.

Approximate Statement of gross receipts of the Eastern Bengal State Railway.

	TH APRIL LASS			to por when th Armil 1886			PRIL 1880 TO E APRIL 1880.			PHIL 1890 TO 261 APAIL 1890.		Total	Total
Hean minase verted.	Receipts.	Per mile worked.	Mean mriesge worked.	Receipts.	Per mile worked.	Mean mileage worked.	Total receipts.	mule worked per week,	Menn mileage worked.	Total receipts.	Fer mile worked per week,	1890.	decreas u 1890,
	Re.	Re.		Re.	Re.	1	Re.	Re.		Re.	Re.	Ra.	Rt.
ers	1,74,444	250	747	1,86,210	240	678	6,13,538	225	747	6,68,388	224	54,820	*****

# BENGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 28th April 1890, on 125 miles open.

	COACEIR	O TRAPPIO	0.	MORCHANI		PPIC.		LL	()4 h					TRAPPIC	Train-mili	m bon.
	Number of passengers.	Coacht		Weight carried.		Receip	pta.		Other ea (estima		Tot corni			Coaching.	Merchan- dise.	Total
		Re.	A. P.	Mps.	8.	Re.	A. :		Ba,	A. P.	Re.	A. I	P.		,	
final traffic for the week	84,140 198	8,610 au	0 0	48,650 368	0	3,010 36		0 0	170	0 0	11,790 94	0		3,738	1.937	5,67
J001 00 000 004 001	468,806	1,55,034	0 0	5,72,247	0	49,611	0	0	923	0 0	2,05,463	0	0	59,167	30,364	88,53
Total for 17 weeks	672,966	1,63,644	0 0	v 17,897	0	57,521	0	0	1,093	0 0	2,17,258	0	0	61.jm2	32,301	94,200
Comparison.					-					- 1					1	
etal for corresponding week of previous year	27,716	9,304	0 0	71,941	0	8,400	0		41	0 0	14,788	0	0	3,783	2,143	6,68
out period of provious year	255	78	0 0	870	0	43	0	0	*****		118	0	0	*****	60445-	F0+0.0+
stal to corresponding date of previous year	485,856	1,69,610	0 0	169,286	0	58,844	0	0	4,858	0 0	2,28,218	0	0	62,426	32,633	96,05

<sup>\*</sup> Audited up to week ending let March 1890,

# PINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Because	RECEIPTS FOR WERK ENDING RECEIPTS FOR WERK SEDING STEE APRIL 1800.						L RECRIPTS FEG. 1889 TO 27TH 1889.	K lst	TOTAL	L RECRIPTS PRO L 1890 TO SETH 1890.	M lur	Total	Total
Hean mirate pursed	Receipta,	Per mile worked.	Mean minga worked.	Receipts.	Per	Mean mileage worked.	Total receipts.	Per mile worked per wook.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increuse in 1990.	decrease in 1890.
196	Ro. 14,718	Ha.	198	Re. 11,799	Ro. 96	195	Ro. 50,477	Ra.	188	Bo. 46,756	Ra. 90	3ke	&c 4,781

# DACCA STATE BAILWAY.

Approximate Resurn of Traffic for week ended 20th April 1890, on 86 miles open.

	COACHIE	O TRAPPI	c.		MERCHAND T		PIC.		L	Other sar	nin	utto	Total	1		TRAFFIC	TRAIN-MILE	O RUN,
	Number of passengers.	Coachi			Weight carried.	1	Receipt	ist.		(estimat	od)	).	carning	ju.		Concling.	Merchan-	Total,
		Bn.	٨.	P.	M.De.	8.	Ra.	Α.	P.	Ro.	A.	P.	Ra.	Α.	P.			
rotal traffic for the week	16,300 181	5,910 69	0	0	18,570 184	0	1,320	0	0	190	0	0	7,830 86	0	0	8,480	<b>694</b>	J,16
For previous 16 weeks of ball-	277,310	26,363	0	0	4,13,160	0	80,858	0	0	2,386	0	0	*1,38,806	0	0	38,614	11,478	80,00
Total for 17 wooks	192,870	1,00,071	D	0	4,33,020	0	41,178	0	0	2,688	0	0	1,46,185	0	0	41,098	12,100	83,19
COMPARISON.																		
total for corresponding period of previous year	14,976	4,451	0	0	8,166	0	783	0	0	209	0	0	5,478			1,496	1,500	4,06
period of previous year	166	88	0	0	96	0	9	0	9	2	0	0	66	0	10	001104	******	******
otal to corresponding date of	268,877	RB,471	0	0	1,98,198	0	17,084	0	0	2,773	0	0	1,02,378		0	41,590	12,235	53,61

<sup>\*</sup> Audited up to week ending let March 1800.

#### FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Rucate	RECEIPTS FOR WEEK ENDING RECEIPTS FOR WEEK HEDING 27TH APRIL 1889.						RECRIPTS PRO 1860 TO 17TH 1899.			RESULTS FRO L 1890 TO MOTH .		Total	Total
Mean mileage weeked.	Receipts,	Per mils worked.	Mean mileage worked.	Receipts.	Per mile worked	Mean mileage worked.	Total receipts.	Par mule worked por week.	Mean maked worked.	Total receipts.	i'er mile worked per week,	increase in 1890.	decrease in 1680,
	Re.	En.		Ra.	Ha.		Ro.	Ro.		Re,	Ra.	Ra.	Ba
26	8,473	64	86	7,830	86	86	19,031	87	86	27,970	81	5,349	E88500

# NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 3rd May 1800, on 274 miles open.

	COACRIBO	TRAFF	IC.	-	MERGHAN		PPIC.	NU	EAT	Other car	P. C.	19.40	Tota	1		TRAFFIC	Calm-Milbs	a EDS.
	Number of passengers.	Conchi			Weight carried.		Reces	pto		(ostimat			onenin			Conching.	Morehan- disc.	Tota
		Re.	Δ.	21.	Mos.	8.	Ita.	▲.	2.	Ba.	Δ.	p.	Ra.	4		1		
Total traffic for the week Or per tible of ratiway For previous 16 weeks of half-	3,647 126	1,208		0	6,449		16	0	0	17	0	0	1,674 61			500	264	76
year	85,231	19,007	0	0	2,23,601	0	13,47H	0	0	1,755	0	0	85,140	0	0	8,435	8,04P	16,6%
Total for 17 weeks	88,675	21.116	0	ð	2,30,003	0	13,997	0	0	1,772	0	0	36,814	0	0	8,(+64	8,303	17,96
COMPARISOR.						1			1									
Total for corresponding week of previous year.	3,761	1,014	0	2	7,438	0	399	0	0	ħ	0	0	1,614	0	0	500	264	701
ng week of pr vious year	101	37	0	0	2//8	0	22	0	0				80	0	0	*****	100021	605 200
new tone year	80,008	22,022	0	0	2,01,619	0	12,108	0	0	1,458	0	0	38,252	0	0	9,016	8,031	17.09

# FINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalkati State Railway.

RECEIPTS FOR WERE EMDING RECEIPTS FOR WERE ENDING SED MAY 1890.					TOTAL	RECRIPTO PRO PRIL 1880 TO 41 MAY 1850,	ree	TOTAL	RECEIPTS PROPERTY ISSO,	m 107	Manual .		
Mean exist erited,	Receipta.	Per mile	Mean mileagur worked.	Resulpto.	Par mile worked.	Mean mileane worked.	Total receipts,	Par mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	Total increase in lapusi.	Total decrease in 1800-91.
	Ro.	Ro.		No.	Ra.		Bo.	Ba.		Ra.	Ro.	Na,	Ba
271	3,616	10	273	1,674	61	274	8,018	00	83.9	8,136	60	154	******

# TIRHOOT STATE BAILWAY.

' Approximate Return of Traffic for the week ending 3rd May 1890, on 278 miles open.

	COVCHIR	TRAFF!	ic.	MERCHAND	BA.	PPIC.	HRA		Other					TRAPPIO	TRAIS-MIL	20 201
	793,274	Conchi		Weight ourried.		Recaip	ta.		Other ear		Tota			Coaching.	Merchan- dise.	Total
		Re.	A. 2	Mno.	8.	Ba.	۸.	P.	Ra.	A. P.	Re.Q	A. :	p.			
Total traffic for the week Or per mile of railway For previous 10 weeks of half-		16,478 60	0 0	2,27,046 882	0	27,483 100	0	0 0	3,065	0 0	46,976 164	0	00	4,983	0,781	18,704
Agg es so su en en	793,274	8,36,232	0 0	43,61,176	0	4,95,188	0	0	82,126	0 0	8,76,491	0	0	86,201	101,296	247,807
Total for 17 weeks	833,560	8,42,710	0 0	45,59,122	0	5,25,606	0	0	85,191	0 0	9,23,467	0	0	91,234	170,077	961,801
Companisor,																
retal for corresponding wook of previous year Per mile of railway correspond-	44,878	16,418	0 0	2,11,659	0	17,753		0	8,987	0 0	80,159	0	0	4,739	6,266	10,000
ing week of previous year	163	60	0 0	776	0	65	0	0	1	0 0	126	0	00	non telep	400000	nes Oda
Potal to corresponding date of	768,984	2,91,527	0 8	25,91,943	0	2,44,581		0	60,927	0 0	5,95,338	0	0	98,671	98,726	194,490

<sup>\*</sup> Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

# FINANCIAL YEAR.

TOTAL RECEIPTS TROW LET APRIL 1849 TO 6TH MAY 1849.

Approximate Statement of gross receipts of the Tirhoot State Railway.

Hean mileage worked.	Receipts	Per mile worked.	Mean mileage worked.	Lecuipts.	Per mile worked.	Mesn minego worked.	Total receipte	Per mile worked per week.	Mean mileage worked.	Total receipts.	For mile worked per wook.	increase in 1890-91.
	360	Re.		Bo.	Re.		Re,	Ra.		Ba.	Ro.	Re.
273	38,186	140	878	46,976	178	273	1,83,986	185	273	2,30,648	160	46,693
		DA	RJKEL	ING-HIMA	LAYA	N BA	ILWAY OO	MPAI	Y, LI	MITED.		Re.
				nings for w eriod of 188		ling 120	h April 1890		***	***		8,640 11,742
			Decreas	o	***		•••	000	000	494		3,103
		Receipts	per mile	e for week e	ending	l2th Ap		151	800	000	Rs 169 23	9 6 7
	w		Degress	0	800		000	000	000	000	60	0 13 5
				t January to priod of 188		-			000	diğe bos		1,28, <b>430</b> 1,30,020
			Decrease	•••			***	999	000	999		1,590
			DARJE	ELING-H	MALA	YAN	BAILWAY	COM	PANY,	LIMITED.		Rs.
		Approxis	nate car	nings for we giod of 188	ek end	ing 19th	April 1890	•	***	***		8,950 10,927
			Doorease		000		400 00	•	900	***		1,977
		Receipts	per mile	for week e	nding 1	9th Ap	ril 1890		***	9 6 9	Rs. 175	
			_	riod of 1889	9	•	***		***	9 9	214	13 6
			Decrese		***				100	***	-	
	94	Receipts	from 1st	January to riod of 1889	o 19th		=		989	***		,37,380 ,40,947
			Decrease		401		100		***	+00	4	18.687



# The Calcutta Gazette.

WEDNESDAY, MAY 21, 1890.

# OFFICIAL PAPERS.

Non-Subscribers to the Gazette may receive the Supplement separately on payment of Sis Rupess per annum if delivered in Calcutta, or Twelve Rupess if sent by Post.

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# TRANSFER BULES FOR COLLEGES AND HIGH SCHOOLS.

#### GENERAL DEPARTMENT-EDUCATION.

Calcutta, the 20th May, 1890.

RESOLUTION.

READ again the following papers:-

Resolution recorded by the Government of India in the Home Department, No.  $\frac{6}{371.383}$ , dated the 17th August 1889.

Letter to the Director of Public Instruction, No. 76T—G, dated the 7th October 1889.

Transfer rules for colleges and schools appended to the Resolution recorded by this Government, dated the 13th September 1887.

Read also-

Letter from the Director of Public Instruction, No. 1995, dated 16th April 1890.

In the Resolution of the Home Department cited in the preamble, the Government of India suggested that inter-school rules, defining the conditions under which pupils should be allowed to pass from one school to another, should be extended to all schools aided by public funds, as a condition of the continuance of such aid; and that the Senates of the Universities should be invited to use their influence to procure the adoption of this system in schools and colleges which do not receive aid from Government. The essential points which it is necessary to secure by 'the inter-school rules were further stated to be, that without the consent of the Educational authorities a boy shall not be taken into a school who has been dismissed from another school for misconduct; that failing to pay his school fees in his former school shall debar a boy from admission to another school, except under similar consent of the Educational

authorities; and that, if received into another school, a boy shall not be placed in a higher class than the class he was in before leaving the other school, except at

the beginning of a new term.

2. In accordance with the above views, the Director of Public Instruction has submitted revised inter-school rules, as appended to this Resolution, and has suggested that Circle Inspectors should be authorised to issue simplified rules based upon them to govern the transfer of pupils in middle and primary schools. The Lieutenant-Governor approves the rules and the suggestion of the Director of Public Instruction.

3. The Syndicate of the Calcutta University have expressed their desire to eo-operate fully with the Education Department in the maintenance of discipline, and are prepared to give their careful attention to any case of infringement of

the rules that may be reported to them.

ORDER.—Ordered, that a copy of the Resolution and of the Rules be forwarded to the Director of Public Instruction for information and guidance.

Ordered also, that a copy of the Resolution, as well as of the Rules, be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN.

Secretary to the Govt. of Bengal,

### TRANSFER RULES FOR COLLEGES.

I.—A student, before he is admitted to a college, shall be required to produce a transfer certificate from the Principal of the college in which he has last been reading. But if he applies at the beginning of a session, without having joined any other college, for admission to the first-year or to the third-year class, the certificate of having passed the last Entrance or First Arts Examination respectively shall be accepted in lieu of such certificate. A student who has failed at the First Arts or the B. A. Examination, and has not meanwhile joined any other college, may be admitted in the following session to the second or fourth-year class of the college, on production of the Registrar's receipt. The fact of his admission, with the date, should be written across the face of the receipt.

II.—The certificate shall run as follows:—

Certified that son of has been a student in the an inhabitant of class of the 18 . His character and conduct have been College from to All sums due by him to the College have been paid, including college fees lis scholarship of Rs. per mensem has been drawn and paid to him His scholarship of Rs. in this college up to His attendance in each course of lectures is given below :-

Subject.

Number of lectures delivered.

Number of lectures attended.

Dated

Principal.

III. - Application for a transfer certificate must be made, either personally or by letter (registered, if necessary) to the Principal of the college; and when so made the certificate is to be given without any avoidable delay. The only grounds on which it can be refused are (!) gross misconduct; (2) failure to pay the sums due to the college, including tuition fees and fines and transfer fee (if any). If a certificate is refused, the cause of refusal shall be notified

in writing to the applicant.

IV.—Any instance of "gross misconduct" on the part of a student, whether followed by expulsion or not, must be at once notified to the Department, failing which no future action can be taken on it. A student expelled for misconduct cannot be admitted to another

college without the express sanction of the Director of Public Instruction.

V .- For the purposes of the transfer certificate, the date on which a student presents his application for transfer, or the date of receipt of the letter (Rule III), shall be regarded as the date upon which his connection with a college ceased, and no fee shall be charged to him for any subsequent month. But if the student does not pay the sums due from him to the college within three days of his receiving intimation of their amount, he shall be treated as "absent without notice" until such sums are paid, subject (as regards any further sums so accruing) to the limit stated in Rule VI.

VI.—A student quitting a college without notice shall be liable to pay fees, together with fines for absence, for one month subsequent to that in which he last attended the college, after which his connection with the college shall be considered to have ceased,

VII.—A student quitting a college, except at the close of a session, shall be liable to pay a transfer fee before obtaining his certificate. The transfer fee shall not (except under special orders of the Department in the case of free colleges) exceed the ordinary monthly fee of the

VIII.—For students sent up to the First Examination in Arts or to the B.A. Examination, the session ends in May; for other students it ends in February, the month preceding that in which the new second and fourth-year classes are formed.

1X.—If a student withdraws from a college after the Durga Puja Vacation, he shall be liable to pay fees in that college up to the end of the session.

X.—A student shall not be sent up to the University examination until he has paid all sums due to the institution in which he has been reading, including fees up to the end of the

session in May.

XI.— When a student has held a scholarship, free studentship, or half-pay studentship, under express stipulation in writing, signed by himself, that the whole or a portion of the sum drawn by or remitted to him shall be refunded to the college in case of withdrawal from it within a certain period, the transfer certificate may be withheld until the sums so due have been repaid, provided that the amount so claimed shall not exceed the amount actually drawn or remitted.

XII.—The transfer of Government scholarship-holders shall be subject to the previous sanction of the Director of Public Instruction, which will be withheld unless satisfactory

reasons are assigned for the transfer.

XIII .- A student who has failed at the test examination (if any is held) of his college shall not be sent up to the University examination as a student of any other college

XIV .- All questions arising between one Principal and another respecting the enforce-

ment of these rules shall be referred as soon as possible to the Director of Public Instruction.

XV.—If a student be found producing a false document or making a false statement as to his attendance at any college, he shall be liable to expulsion and shall be reported to the Department.

XVI. - Wilful transgression or colourable evasion of any of the foregoing rules will render a college liable to forfeit the right of sending up candidates for senior scholarships and to be reported to the University for further penalties.

### TRANSFER RULES FOR HIGH SCHOOLS.

I.-A student, before he is admitted to a high school, shall be required to produce a transfer certificate from the head-master of the school (of whatever class) in which he has last been reading. He should be accompanied by, or should present a letter of application from, his father or bond fide guardian, whose name should be registered in the admission book of the school. His father's name and place of residence should invariably be registered, in order to secure identification. If he has failed at the previous Entrance examination, and applies for admission in the following session without having joined any other school, the Registrar's receipt shall be accepted in lieu of a certificate. The fact of his admission, with the date, should be written across the face of the Registrar's receipt.

II.—The certificate shall run as follows:—

"Certified that son of an inhabitant of was in the class of the school up to and left with a character. by him to the school have been paid. He has (or has not) passed the annual examination for promotion to the class. His age on leaving is believed to have been years for promotion to the months."

Head Master.

III.—Application for the transfer of a student must be made by his parent or bond fide guardian, either personally or by letter (registered, if necessary), to the head-master of the school which he is leaving; and when so made the certificate is to be given without any avoidable delay. The only grounds on which it can be refused are (1) gross misconduct, (2) failure to pay the sums due to the school, including schooling fees and fines and transfer fee (if any). If a certificate is refused, the cause of refusal shall be notified in writing to the applicant. If the certificate is not received within three days of the payment by the student of the amount (if any) due to the school, the matter may be referred to the Inspector of Schools.

of the amount (if any) due to the school, the matter may be referred to the Inspector of Schools, or to the Director of Public Instruction, as laid down in Rule XII.

IV.—Any instance of "gross misconduct" on the part of a student, whether followed or not by expulsion, must be at once reported to the Department, failing which no future action can be taken on it. A student expelled for misconduct cannot be admitted to matter action can be taken on it. A student expelled for misconduct cannot be admitted to another school without the express sanction of the Department.

V.—For the purposes of the transfer certificate, the date on which a student presents his application for transfer, or the date of the receipt of the letter (Rule III), shall be regarded as the date upon which his connection with the school ceased; and no fee shall be charged to him for any subsequent month. But if the student does not pay the sums due from him to the school within three days of his receiving intimation of their amount, he shall be treated as "absent without notice" until such sums are paid, subject (as regards any further sums accompany) to the limit of the limit o accruing) to the limit stated in Rule VI.

VI.-A student quitting a school without notice shall be liable to pay fees, together with fines for absence, for one mouth subsequent to that in which he last attended the school,

after which his connection with the school shall be considered to have ceased.

VII.—A student quitting a school, except at the close of a session, shall be liable to pay a transfer fee before obtaining his transfer certificate. The transfer fee shall not (except under special orders of the Department in the case of free schools) exceed the ordinary monthly fee

VIII.—The session of each school ends in the month in which the annual examinations for promotion are held, and preceding that in which the new classes are formed. For

students sent up to the Entrance examination, the session ends in May.

IX.—If a student withdraws from a school after the Durga Puja vacation, he shall be

liable to pay fees in that school up to the end of the session.

X.—A student shall not be sent up to the Entrance examination until he has paid all sums due to the institution in which he has been reading, including fees up to the end of

the session in May.

XI.—When a student of the first or second class has held a scholarship, free studentship, or half-pay studentship, under express stipulation in writing, signed by himself and his guardian, that the whole or a portion of the sum drawn by or remitted to him shall be refunded to the school in case of withdrawal from it within a certain period, the transfer certificate may be withheld until the sums so due have been repaid, provided that the amount so claimed shall not exceed the amount actually drawn or remitted.

XII.—The transfer of Government scholarship-holders and free students shall be subject to the previous sanction of the Inspector or Joint Inspector of Schools, or (in the case schools attached to first-grade colleges) of the Director of Public Instruction, which will be

withheld unless satisfactory reasons are assigned for the transfer.

XIII.—A student shall not, on admission to a school, be placed in a class higher than that in which he was in the school he has quitted, or if he has passed the annual examination for promotion, than the next higher class. This rule shall apply to admissions to the three highest classes. Thus, a student failing at the annual examination of the fourth class of one school cannot be admitted to the third class of another.

XIV.—If a student has been absent from a school for a full year, and if the Inspector of Schools or the Director of Public Instruction (ride Rule XII) is satisfied that his absence was not due to misconduct or rustication, the preceding rule may, with the sanction of the Inspector or the Director, as the case may be, be relaxed in his favour.

XV.—The fact of a student applying for admission without having undergone the

annual examination of his old school must be regarded, unless the reverse is certified to by his former head-master, as sufficient evidence of his not having been fit for promotion. He should not therefore be admitted into a class higher than that in which he was in the other

XVI.—After admission under the foregoing rules, no student shall be promoted to a higher class before the next annual examination of the school. The application of this and the preceding rule shall be confined to the three highest classes. (See illustration, Rule XIII.) preceding rule shall be confined to the three highest classes.

Note (1).—It would be a violation of this rule to send up a student to the Entrance examination before

he has been promoted in due course to the first class of the school.

Note (2).—The annual examinations are held at various times from December to February. In the case of a student admitted under Rule XV, the "next annual examination" means the annual examination." nation held in the following session.

Note (3).—The annual examination will not be recognised in any school which has not been bond fide

in existence from the beginning of the session

XVII.—The provisional admission of a student to a school will not be recognised. No student will be regarded as belonging to a school unless and until his name is entered both in the admission book and on the register of a certain class.

XVIII.—A student who has failed at the test examination of his school shall not be sent to the Entrance examination as a student of any other school, nor shall be be sent up

to that examination as a private student.

XIX.—All questions arising between one head-master and another respecting the enforcement of these rules shall be referred, as soon as possible, to the Inspector or the Director (vide Rule XII).

XX.—If a student be found producing a false document or making a false statement as to his attendance at any school, he shall be liable to expulsion, and shall be reported to the

Department.

XXI.—Wilful transgression or colourable evasion of any of the foregoing rules will render a school liable to forfeit the right of souding up candidates for junior scholarships, and to be reported to the University for further poualties

# LUBERALITY OF BABU JANOKI BALLAV SEN, ZEMINDAR OF DIMLA, IN THE DISTRICT OF RUNGPORE.

No.  $M\frac{1G}{4}$ 2, dated Darjeeling, the 15th May 1890.

From—H. J. S. Corron, Esq., Secretary to the Govt. of Bengal, Municipal Dept., To—The Commissioner of the Rajshahye Division.

I am directed to acknowledge the receipt of your letter No. 66J, dated 17th April 1890, in which you bring to the notice of Government the liberality of Babu Janoki Ballav Sen, Zemindar of Dimla, in the district of Rungpore, in subscribing Rs. 20,000 in aid of the drainage scheme now in progress at Rungpore, and Rs. 20,000 towards the native sanitarium at Darjeeling. The latter amount will, in accordance with the wish of the donor, be devoted to the construction of a building for the exclusive accommodation of Hindu patients, to be called the "Janoki Ballay House."

patients, to be called the "Janoki Ballav House."

2. In reply, I am directed to request that you will be so good as to convey to Babu Janoki Ballav Sen the thanks of the Lieutenant-Governor for his munificent gifts, and to say that this letter will be published in the Cilcutta

# REPORT ON THE STATE OF THE SALT MARKET FOR THE FOURTH QUARTER OF 1889-90.

No. 353B, dated Calcutta, the 12th May 1890.

From-K. G. Guffa, Esc., Offg. Secretary to the Board of Revenue, L.P., To-The Secretary to the Government of Bengal, Financial Department.

I AM directed by the Board of Revenue to submit the following report on the state of the salt market for the fourth quarter of 1889-90, comprising the months of January, February and March

THE HOR'BLE SIE HENEY HARRISON, Kr.

2. The quantity of salt of every description cleared during the quarter under report amounted to 24,01,999 maunds 18 seers 6 chittacks against 24,38,503 maunds 14 seers 8 chittacks in the previous quarter, and 21,53,700 maunds 31 seers 13 chittacks in the corresponding quarter of the previous year; and the net amount of duty levied thereon was Rs. 56,82,037-13 against Rs. 57,16,963-2 in the previous quarter, and Rs. 51,04,003-12 in the corresponding quarter of the previous year.

1890.

3. The quantity of excise salt sold in Orissa during the quarter under review and the quantity which remained in store at the close of the quarter are

shown in table I:-

### TABLE I.

				Cuttack.	Poor	190.		Bains	ore.	
				Mps. s. T.	Mne.	s.	T.	M Da.	g.	7.
Balance at close of the last qualified during	arter g the quar	ter	***	****	1,70,864		0	1,830		0
		Total	***	*****	1,70,864	0	0	1,820	0	0
Salos during the quarter Wastage	***		•••	*****	1,797	0	0	200	0	0
		Total	***		38,628	0	0	200	0	0
Balance at close of the quarte	er.	***	***	*****	1,32,241	0	0	1,620	0	0

<sup>4.</sup> The total sale of excise salt during the quarter under review amounted to 37,085 maunds against 15,629 maunds in the provious quarter, and 20,389 maunds in the corresponding quarter of the previous year.

5. The subjoined table shows in comparison the importations into the port of Calcutta and the total clearances of sea-imported salt during the quarter under review and the corresponding quarters of the previous two years:—

TABLE II

			1097	-00.	1885		1969-	80.	
			Fourth	quarter.	Pourth q		Fourth quarter.		
			Imported.	Cheared,	Imported.	Cleared.	Imported.	Cleared.	
			Mda.	Mds.	Mda,	M da.	No.	Mids.	
Liverpool pungah Foreign kurkuteh Indian ditto	004 90- 014 \$00 41 VII	100 · 1	21.40,707 2, 01 mss 5,21,005	13.54,549 3,73,719 1,55,754	13,65,908 2,27,523 2,10,703	15,60,408 3,47,036 07,430	14.08,000 0,94,646 1,02.585	10,81,929 8,94 536 1,18,503	
	Total		17,15,950	20,00,022	20,04,276	19,94,934	26,00,046	21,55,965	

6. The following are the details of the Indian kurkutch salt shown in the above table:—

TABLE III.

					1887	-85,	1ms	-89.	188	A-510.
				Ì	Fourth	quarter,	Fourth q	uarter.	Fourth q	narter.
					Imported.	Cleared.	Imported.	Cleared.	Imported.	Cleared
					Mds.	Mds.	Mds.	Mda.	Mds.	Mds.
Rombay Viangapatam	P	B 0 -	444		2,23,046	1,58,764	1,79,610	06,958 2 800	87,461	GD, 481
Coconada	100	1.00	100			W 444	25,974	21,3/74	201,040	80,416
Madens	0.17	100	***			1188	112111	***	G,0u0	6,000
Tutteerin		no a				091141	922 was	*****	86	56
Colingapulam	**	100		*100	N	440.74	200.00	******	40	- 41
		1	otal	201	2,53,006	1,38,754	2,10,703	97,430	1,02,303	1,19,300

7. Table IV shows the quantity of sea-imported salt remaining in the warehouses at the close of the quarter as compared with the results of the previous four quarters:—

TABLE IV.

			1		1		
•	WRIER STORED.		Pourth quarter of lass-at.	First quarter of 1850-00.	Second quarter of 180000.	Third quartee of 1869-90.	Fourth quarter of 1889-00,
			Mds.	Mda.	Mda.	Más.	Más,
Sulten Chillegong	Government solahe datto do	ppo del 1	14,64,357 2,32,456	29,40,068 1,51,567	23,55,265 1,42,580	17,41,940 67,843	22,11,948 2,21,683
	To	tal	10,97,068	33,16,600	24,00,146	18,00,467	B4,38,876

8. The despatches of salt from Calcutta by water and the three railways passing the several salt-pass stations into the interior of the country, both east and west of the river Hooghly, during the quarter under review and the corresponding quarters of the previous two years, are shown in the table below:—

TABLE V.

Pariob.	Vid Batikhali.	Ped Sankrail.	Pig Gowak bally.	Vid Kidderpore.	Fid Bailtaghatta.	Fid Ruthtollah Glat.	By the East Indian Railway.	By the Rast- ern Rengal and South Seatern Ra I- ways or vid Chitpore.
	Mein.	Mids.	Mda.	M4n.	Mds.	Mda.	M da.	Mds.
Pourth quarter of 1997-88 1990 of 1990-80 1980 of 1980-80	9,13,50s 3,65,7s5 1,67,400	1,60,078 1,61 517 1,43,646	1,08,226 P4,768 96,192	\$0,000 75,660 75,200	4,55,505 4,55,45 6,57,841	7,405 2,605 2,605 3,657	9,16,237 6,54,563 <b>3,54,336</b>	2,04,000 1,73,000 2,45,050

9. The quantity of salt despatched by the East Indian Railway to

Mda. a. stations beyond Buxar during the quarter under

January
February
March

Total

Total

Total

Total

Total

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10. The shipments of Liverpool salt for the port of Calcutta according to published market reports were as follow:—

						Tons.
January	* 0 0		0.0.0			33,530
February	6.0.0	***	4 4 6	. 6 %	+ o a	30,890
March	***	000			4.0.0	15,500
				PD - 1		## A A A A
				Total	0 = 0	79,920

11. Table VI shows the market price per 100 maunds of Liverpool and other descriptions of salt at the close of each fortnight during the quarter as compared with those obtaining during the same period last year:—

TABLE VI

PERCEIPTION	op Sali			on the	Primes Sist Ja		Prices		Prices on the		Prices on the 15th March		Frices on the	
			1000.	1890.	1889,	1890.	1609,	1800,	1849.	1800.	1899.	1800,	1992.	1800.
			Es.	Re.	Rs.	Ha.	Rs.	Ba.	Ris.	Ilu.	Ra.	Ra.	Re.	Rs.
Livarpool puncah French kurkutch Jedda ditto Rembay ditto Hullaz ditto Suncat ditto Rock	100 001 001 000 000 000	801 801 802 8-0 811	95 90 92 78	169 40 66 50 146	95 96 98 43 75	100 61 61 47 145	96 01 62 117 01 50 78	96 44 69 47 150	94 61 62 97 61 61 78	45 75 49 180	92 01 63 92 61 61 76	89 44 77 40 180	91 92 01 01 76	91 44 89 51 150

12. The following table shows the quantity of sea-imported salt admitted into bond, and cleared from bond and shipboard, at Chittagong and Naraingunge during the quarter under review and the corresponding quarter of 1888-89:—

TABLE VII.

						- 1	ADMITTED :	INTO BOND.	Chear	ED.
Pour,	Dan	CAIPTI	ON ON	SALT			Fourth quarter of 1888-89.	Pourth quarter of 1889-90,	Fourth quarter of 1688-59.	Fourth quarter of 1539-50,
							Mpa, s. c.	Мра, в. с.	Mos. s. c.	Mus. s. o
(	Liverpool	-0.00	40.1		000	884	1,48,470 0 0	1,06,412 0 0	94,981 25 0	77,171 18
	Runhay	+ 10 0	100	0.0 +	2 05		*****	******	0 16 H	0. 3
hitterong	Massert			8.64	6	201	*****	49,390 0 0		2,780 0
THE SHIPTING ON	Ismentments	104	***	1.1	1.00.0	411	800.000	-	******	0 8
	Ranguon	+ 0.4	101	9.91	* * 1	***	40 + 0 + 0	3 5 4 5 5 5	144481	0.10
	Mahlivo	0.0 =	9.64	0.01	1.1	0.01	912111	101994	20,898 0 0	30,402 0
Marainguige	Finalboot	0.01	10.5	+4+	* ; *	***	1 1111	114-99	entrant, a c	00,400
				40	\otal	1115	1.40.470 0 0	1,15,788 0 0	1.24,831 37 6	1,04,445 35

No transactions in sea-imported salt have been reported for the quarter from the ports of Cuttack, Pooree, and Balasore.

# Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 17th May, 1890.

	No.	District and return		Rainfall at Sudder Station in inches.	
BR	NGA	L.			
		Western De	istricts.		
	1	Burdwan	May 17, '9	0-21	Weather—hot and occasionally cloudy. Rain much wanted. Agricultural operations impeded for want of rain. Prospects of til and sugarcase not good. Prices of common rice:—
					Burdwan 15 Culns 15 Cutwa 1411 Ranigunge 161
	2	Bankoors	., 17, '9	0 0.25	Weather much cooled down. A very light shower on the 15th. Supercane and other standing crops are suffering in places for want of sufficient moisture. Rain wanted for ploughing. Common sice selling at 20 seers per
DIVE.		Birbhum Rampore Ha	17, '9	0.00	rupee at Sudder and 18 seems at Bissenpore.  Rainfull so small as to be hardly measurable; but the sky is much clouded, and the weather remarkably cool. Sugarcane planting nearly complete. itrice of rice 16 to 20 seems per rupee.
BURDWAN	1	Midnapur Contai	17. '9	1:56 0:53	Frequent showers. Rain very beneficial. It will allow of the lands being pre- pared for sowing. Indigo doing well. Prices of common rice— Srs.
Bui					Sudder 18 Contas 20 Tamlok 17 Ghatal 16
	6	Hooghly Jehanabad	., 17, '9	0 0.33	Weather—cool for the time of your. Such rain as has fallen has improved prospects. Prices of common rice—
					Sudder 14
	(	Howrah	., 17, '9	0 1.02	Wenther-cooler, somewhat cloudy. The rain has done good. Grounds being prepared for next paddy coop. Price of common rice 12 seems per rapes.
	6	Control Dia	May 17, '9	0 1-92	Weather—hot and cloudy. Sowing of early rice and jute continues. The late rain has done much good, but more is wanted. Sugaronne doing well.
DIVE.	7	Nuddea Kushten Meherpore	., 17, '9	1.51	Prices stationary Rain general and heat much moderated. Sowings going on. Rain has done much good.
Pagerpancy	8	Chuadauga Khoolus Satkhira	., 17. 'y	1·13 2·24 0·58	Weather—stormy and bot. Land is being ploughed for one. Reaping of boro completed with good outturn.
Pag	9	Bagirhat Jessore Jhenidah Magura Namil	17. '9	3'20 2'12 1'56 0'14	Weather—cool and cloudy. The rainfall of the week has been good for the sowing of indigo, jute, and one and seem paddy. Jute and indigo have been sown to the extent of 15 annas each.
1	10	Bongong Meorabadabad Lalbagh Jungipore	., 17, '9	0.04 1.35 0.37 0.41	Wenther-cool and cloudy. Good showers over parts of the district, but more rain needed. Sowing of bhados progressing.
ĺ	11	Dinagepar Thakurgaon	17, '9	3-89 1-96	Weather—variable. Storms and much rain during the week. Rain sufficient, and prospects good. Sugarcane planting not yet completed. The usual area is likely to be planted with sugarcane.
	18	Rajshahye Nattore	., 17, '90	0.68 8.23	Weather—cool and cloudy. More rain expected. Sowing of jute and of early and winter paddy continues. Hain has done good to the already sown crops. Prices of food-grains stationary.
DIVE.	19	Rangpur Kurigram Nilphamari Gaibanda	,, 17, '90	3·15 2·25	Weather—unsettled; cool with frequent abovers. The young one rice and jute are thriving, but some damage has been done by the excessive rainfall. The area under jute shows a large advance over that of last year.
RASSEARYS DIVE.	14	Bogra Sherpur Nowkhille	,, 17, '90	2·60 1·71 1·81 1·74	Weather—changeable. Jute and one rice are up in most places and doing well.  They are still being sown in a few places. The land is being ploughed for ones rice. Common rice celling at 18 seers a rupes.
RAJ	15	Pubna	, 17, '9¢	1.59	Weather—showery. Ans, owen, and jute are still being sown in the Sudder aubdivision. Recent rain has done much good. Prospects of crops satisfactory, especially in the Serajgunge subdivision. Prices have somewhat
	16	Darjoeling	w 17, '90	2:08	fallen.  Weather—cloudy and cold. Sowing of blades, jute, and sugarcane almost finished. Lands are being prepared for the transplanting of winter size. Prospects generally good.
-	17	Julpigoree	w 17, '90	8-97	Weather—cloudy and fairly cool for this time of year. Sowing of blades and jute nearly completed. Prospects favourable. Common rice salling at 17 seems per rapes.

1	No.	District and ceturn.		station in inches.	
40.620	SII A I	concluded.			
Se aco	21161	Eastern Dis	deni ad a		
	18		úny 17, <b>'9</b> 0	5-01	Weather—cool; rainy and cloudy with high winds. State and prospects of crops good. Harvesting of boro paddy completed. Young rice and jute plants thriving. Sugarcane doing well. Chillies are being gathered. Sowing of common nearly finished. Recent rain has done much good to the standing
MACCA PAVE.	19	Farreedpur	,, 17, '90	2.97	Crops. Fodder is available. Price of common rice 13 to 16 acers per rupee Weather—seasonable. Recent rain has much benefited the standing crops. The sowing of cames and case paddy is al! but completed. Juli data is being harvested with an average outturn of 13 annual. Price of common rice ranges from 13 to 16 seems per rupee.
	20	Backergunge	,, 17, '90	0-55	Weather—seasonable. Prospects of crops good; more rain wanted. Common rice selling at 12 to 15 seems per rupes.
					,
(	21	Mymeasingh	' ,, 17, '90	4.08	Weather—cool and rainy. State and prospects of crops good. The bore has been harvested, and is more than an average crop. Common rice sells at 18; seers por rupee.
Divin.	22	Chittagong	,, 17, '90	1.93	Weather—seasonable. Chilly crop excellent. Sowing of panis and in progress in some places it has begun to germinate, but the leds worm (probably the mole cricket) is doing a little damage. Common rice selling at 17 seers per rupes.
CHILLIAN DECK DITTE	28	Nonkholiy	,, 17, '90	4:44	Weather—variable; temperature very fluctuating. 12 annas on average of an erop reported to have been sown. In Beginngunge, Feui, Farashgunge and Shanbag damage to a cartein extent caused to young plants by inacte.
CHILL	24	Tipper»b	,, 17, '90	4:77	Weather—cloudy, wet and cool. Rice, jute, and til doing well. Prospects much improved by the late rain. Prices stationary:
1	25	Chittagong Hill Tracts.	,, 15, '90	2.93	Weather—very hot and cloudy. Heavy showers on the 10th, 14th and 15th. Just burning now over. Sowing in justs commenced in some places. Owing to rain many justs not burnt. Gathering of tobaces and chillies still continues Sugarcane doing well. Commen rice is being sold at 13 secre 5; chittacks
181	IAB.	Hill Tipperals	*** 1	***	per rupe. Report not received.
	26	Patna Barb	., 17, '90	1 23	Weather—hot; often cloudy and occasionally rainy. Ess wind blowing, Cheeses and sugarcane much benefited by the rain of the week. Opium weighmen finished. Prices rising.
	37	Gya	,, 17. '91	0.90	Weather-hot. Prospects of sugarcane favourable. Prices of food-grain rising.
,	18	Shahabad Buzar Saszeram	., 17. '91	Nil 0 36 0 08	Wouther-coul. East winds. Slight rain at Arrah on the 14th. Cheens bein respect. Prospects good.
Div	29	Durbhunge Madhubani	., 17, '90	1:58	Weather—cloudy during the latter part of the week. The rainfall of the wee has done immense good to paddy, mang, and indigo, and has facilitated cu
PATEA DIVE	80	Somestipur Morabe par Hajipur Sitamarhi	,, 17, 96	0.70 0.53 2.88 0.70	Weather - het at the commencement of the week. Since the rain of Wednesda (14th) the weather has become cool with easterly winds. Rain very beneficial to all crops on the ground, but it has varied much in quantity from
	81	Sarnu	., 17. 190		place to place, and in most localities more is wanted.  Weather—extraordinarily cool. Strong east wind and a good deel of rain every where. Indigo, rice seedlings, and cheese benefited by rain. Ploughing
	1 85	Champern	17, '90	60 0.67	commenced for bhadoi crops.  Weather—cool. Rain during the weet has been beneficial to the standing crops.  Sowing of paddy is being pushed on. Preparation of lands for sowing of bhadoi crops continues. Inaigo is being weeded.
	, 88	Monvey.	., 17, '90	1.60	Weather—warm till 18th, when a cyclonic storm broke from north-cast, causing full in temperature. The rain will do much good, allowing cultivation for bhadoi crops to be begun, and doing good to indigo.
_	84	Blugueptir Banke Madrepoorah	,, 17. '90	2·14 1·20 0·50	Weather—cool with strong casterly winds. Itain has been general, and has don- much good to crops on the ground, and has helped on preparation for rice crop.
SHAGULFORE DIVE.	85	Pursont Armerah	17, 190	1·12 2·44 1·98	Weather—cool after the rain, with easterly winds. Rain has done good in all parts of the district. Jute and indice crop doing well except on high lands. Rice on low lands being weeded. Bhadoi crops being sown.
SHAGULM	36	Maidab Chanchal Subgunge Gajole	., 17, '90	2·87 2·27 0·85 2·06	Weather—hot in the beginning of the week, but cold since Tuesday (18th). Heavy showers attended with storms on two days all over the district. This has reduced the temperature considerably, and the rain has been plentiful and general. Harvesting of boro paddy continues. Sowings of bhado, and winter rece going on. About 8 annes of the bhadoi have been sown. Rain has done much good to the standing crops. Common rice selling at average of 145 seers per rupue, but a fall in price is expected.
	87,	S ntimi Pergus Godda Pakour Rajmehul Jantara	. 17. 'til	0.07 2.25 3.33 2.25 0.21	Weather—hot at first and then very cool since the 13th. Bore paddy is still being respect in Rajmelmi. The heavy rainfall at Rajmelmi, Pakour, and Godin has greatly assisted agricultural operations, but rain is much wanted at Deoghur.

No.	District a	nd date of		Rainfall at Sudder Station in inches.	Character of the weather and state and proceeds of the crope.
1884	A.			}	
/ 18	Cuttack		900		Report not received.
89	Poores	May 16,	<b>'90</b>	0-50	Weather—consonable. Sowing of sered and beelt crops has commenced. Miscellaneous crops doing well. Price of common rice stationary.
40	Balasore MAGPORE.	" 17,	190	0-89	Weather—cooler. Rain has helped cultivation, but more is wanted. Number of coolies on relief-works 189.
	id-Wast Fronti	or Agency.			
61	Hasaribagh	May 17,	190	0.46	Weather—rather unsettled; cloudy and much cooler. Sugarcane and mange doing well. Lands being ploughed in places. Rice celling at from 16 to 30 seems per rupes.
45	Lobardugga	,, 17,	*90	1.36	Weather—seasonable and cloudy. Moles gathering finished; average outsurn at Palamow reported to be 6 annes. Mango and sugarcane reported on well. Pleaghing going on. Gore rice being sown here and there
42	Singbhoom	" 17,	190	2-53	Heavy rain during the week. Weather still threatening. Ploughing operations commenced. Sugarcane thriving. Mangoes ripening. Common rice celling at from 16 to 24 seems per rupes.
44	Manbhoom	17	, 90	1-13	Weather—windy and cool. No crop on the ground excepting augureans.  Ploughing commenced. The rain has done some good and has cooled the atmosphere. Rice calling at from 18 to 22 seems per rupes.

Published for general information.

CALCUTTA; REVENUE DEPT., The 20th May, 1890. P. NOLAN,
Secy. to the Gort. of Bengal.

the following Statement shows the Quantities of the Principal Staules of Traffic imported unto Calculta from the Interior aurony the month of February, 1840. IMPORIS INTO CALCUTTA.

			700	D-GRAIN	<b>8</b> .			Pinnovsi	PODUCTS.	0110	nubs.				800	AZ.	Tou	LCUP.
hence imported.	Rica.	Paddy.	Tout	Wheat.	Gram and pulses.	Other food-grains.	Total.	Juto, raw.	Gunny- bags.†	Linseed.	Mustard need.	Ten, Indun.	Cotton.	stik,	Refined.	Unrefined.	Unmanufac- tured.	Mannfie
	Mda,	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mda.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	M do.	Mds.
BREEFE.		1,071	2,20,093	199	873	16	9.27,111		12,250	118	1,196	80	154904	102	101.450	18	164	1
orthooth ere	1,94,045		1,92,695	411	40 800	*****	1,92,550 8,24,677	602	4,000	5,382	46 200	687000 600 PG	100	8:19	25.4	1,127	8	*****
Tim Miles	3,12,790 97,881	18,524	1,07,817	650	8,673	******	1,11,094	MP,818	205,167	1,026	398	*****	2,547	17	9,903	29,679	3,921	768
Charles and and	3,8 s,857 9,330	23,923	8,99,40g 9,840	2,454	81,543	699	64,264	\$3,837 11,400	320,655 2,023	33,830	683	00×104	223	887	150	11,194   15,000	1,846	ste 4 freed
4.000 +++ +++	14,540	14,775	28,774	00-700	8,407	991714	23,824 34,697	1,502	105	1,140	1.63	24274	140 10	*****	180	8,579	780	000110
rahedabad or	27,999 26,039	5,110	3211,112553	4u9	6,144	95	B1.077	2,675	185,855	468	-00407	111.01	001 11	891	234 100	100-10	100	******
- PHOD 10 41	1,701	400170	1,701 870	10:10	304	000011	1,086	14,350	201-04	109		6 101	010	E 20		******	16,688	-11.00
netwaye	8,018	1 100	8,018	700	08000	000.000	9,718	61,712	43,460	101102	2,514	19211	4111	*** ***	***	20100		110773
and ""	1,134		1,181	441.739	430	000 441	1,674	2,64,850	486,810 83,428	*****	8,971	20th	*****	20	449104	******	841	******
and and and and and and and and and and	000 111	110101	860 11	200.00		194,555	404.04	1,760	1143, 680	102.002	448	223	4,061	80.00	******	******	888	******
10 100 to	7,503	485	904 7,829	000-10	1,.51		2,126 8,831	2,56,641	315 580	908	8,812	10	2,292	100 11	*****	1	11	******
bergunge	8,64 995	600	8,46,0+0	*** **	000	800 +00	8.44,650	6,1u0 1,8s,x86	#40 FFF	44	917	******	144	******	******	62	***	100 100
mensing B	1,083	600	1,400	*****		144400	3,6%0 8,400	1,520	000.000	*** **	40000	710	8,483	400101 ADDM	*11004	101100	181	0.011.00
tingoths	18,203	10000	25,119 15,303	86****	******	5094A4	36,119 13,548	879	0.00 + 04	000+04	E00	130	200	400149	010 00	625569	900	100-60
tal of Boogal	22,08,399	81,108	22,56,058	4,787	88,391	1,008	23,50,216	10,58,683	1,518,410	47,277	17,596	61:	14,775	2,282	9,661	74,018	96,831	1,002
BEEAR.	1,135		1,885	632	99,780	642	00.000		805	7,991	13,787		19	8	******	6,005	200	2,916
ston	51000	510100	104417	997111			81,596	141111	280	1,310	8,457 659	*****	***	000 - 0	14	17,036	33	234
shabad see	268	******	244	106	8,941	363	2,647 846	900-00	280	313	4,000	******	9	*****	******	** 400	100	19
:bbungs	22220	*****	*****	*****	894	301	1,886		4,5%5	4,789	87,523	210			00011	100 100	di	
mparus		******	6	*****	. 1	******	7	*****	70	8,29 /	19,363		*	100107	100111	813	100	******
nghyr set ***	2,144	*****	2,144	5,815 18,612	0,831	910	34,481	*****	1,185	4,185	11,107	******	*****	444.179	8	130	213	05 000
TENER II	787	000 7	787	1,365	2,9 4	113	3,281 6,479	38,506 2,677	3,533	726	4.316 7uu	100.000	100100	14 mag	00 000 10 -01	101 00	100	000-01
aidah Pergum-	7,376	141000	7,374	10,741	9,659	1,419	29,393	1,963	1,540	1,863	22,476	*****	31.2	130		997	and	1
galit.	18,003		13, 93	33,436	78,865	4,040	1,23,434	\$3,166	18,900	25,090	1,16,485	312	61	140	19	28,2:7	1000	3,160
Onissa.					-		1,20,000					-						
itteelt	963 71,190	9,795	283 77,31±	41011	30-6	101000	383	1,296	891.118	*****	877	313100		3	111110	000 100	130	200140
Total of Urland	71,573	9,796	77,693	******	304	******	77,516	10,895	*****	******	877	P1 541		2	,,,,,,	200111	130	191 -00
						_												
mora Nacrons.	414400	*****	896114	401100	460 000		abi 400	******	360	41	11,854	*****	*****	871	100101	******	800	190 da 1
est accordan	6,513	00100	6,513	******	000000	9	0,513	******	245	501-41	3,608	359	******		110000	******	460	100 ***
eal of Chota Wag-	6,513		6,518		140100	y	6,522		595	41	18,462	359	******	371	900	101171	100	*****
pere,			-															
remote under be Lieutemant-	23,94,676	90,000	23,63,369	39,163	1,61,463	8,067	28,88,071	10,89,717	2,534,966	72,414	1,50,788	1,383	16,888	2,796	9,674	1,02,248	37,161	4,223
rem Provinces.			12 010							100	3,764	36,138	8,125	879	200 000		000	. ******
onh-Western Pro-	11,090	******	11,859	88,672	31,441	1,984	11,889	15,184	210	11,319	66,489	118	In an much	8	178	4,839	20	23
visces and Oudh.	12	000011	19	6,870	9,363	8,140	11,385		1,925	00000	000 000	73	18,479	100 111	******	101100	2	2
rural Provinces	21710	420002	eed 100	2,100	618	000 001	3,778	240000	360	801 860	003409	200-11	81,874	25	00 010 000 000	101/19	000	400 xx0
etral India.	20000	100/100	00000	000018	******	1	,	000000	200.079	-90	******		7,919	1	*****	100100	461	13
imbay	001111	88840	000000	9022115 902214	1,164	******	1,164	00000	******	900100	801000	******	1,045	000111	1,965	000111	967	244
kemah dama	1,006	2,023	3,140	*****	638 30	200400	8,767	170404		140077	000 000	******	6,593	000 100	32,513	20,379	50	850
ragi places		******		441.000	1-	******	87	1611100	22,380	04 700		-	3,16,100	3,208	44,833	1,96,963	27,453	8,077
ned Total ; 1880	23,10,320	99,071	23,68,437	1,00,265	2,17,711	9,138	34,96,136	11,05,079	1,860,610	84,726	1		1,27,634	2,493	21,820	92,101	24,838	
# Imports										99,588	2,08,463							

One maund of paddy is equivalent to 25 score of rice.

The Sea-borne Trade of Calcutte in these Staples during the month of February, 1890, was as follows:-

ALCOSTA-	-				1													
miliam poets,	4,10,200	80	4,29,418	005000	1,784	271	4,13,465	334	839,600	*****	10,400	480	485	>+050d	180	60	281	
ber ports in Bombay	419 710	5,641	419 4,173		8,725	101100	419 18,888	3,848	144,700	4	186	8	940000 941-980	175	10	1	000	6
Madrae	1,68,810 2,796	000 00 011000	1,60,819	89 1,817	6,820	2,386	1,72,378 21,186	468	370,100 3,386,040	200 AND	100000	71	116	116	1,919	633	10,764	EG
her Indian orts adioberry	101100	000000	800 000	204 163	2,412 263	000000 887+48	2,616 423	84	282.780 126,800	*****	405000		******	*****	2,919	2,000		14
of Inter-	8,60,186	8,871	8,63,618	1,223	34,669	2,637	6,93,360	4,814	3,609,699	4	10,645	888	603	198	2,801	3,298	41,503	84
oreign ports — uted Kingdom ber Poreign	3,16,697	19	2,14,509	01000	6,821		9,20,080	7,97,394	908,800	98,861	9,718 14,987	70,898	16,460	188	818	103	461	6.1
of Persison	11,66,788	4,200	11,58,567	000	32,514	16,031	12,07,641	5,11,180	4,099,900	1,33,638	17,702		1,27,560	423	813	705	461	. A.S
Me	13,70,285	9,790	13,72,870	2,693	79,927	18,688	10,37,871	13,08,474	5,038,000 0,247,000	1,83,639	28,347		1,28,171	600	3,314	8,008	12,26.	1.0
Vote 1800	12.60,738	9,688	12,66,696	10,027	76,978	1,305	13,61,039	12,81,019	13,806,971	2,88,883	61	86,490	1,06,400	1,379	1,963	1,485	15,63	8

The following Statement shows the accord Routen fallower by the Trate in the Principal Staples of Traffic imported into Calcuta during the month of February, 1890.

### IMPORTS INTO CALCUTTA.

A shade and the same of the sa		Fo	OP-GRAIN	в.		Pindova l	noncera,	Опы	ups.				80	GAR.	Ton	14 COO.
SPECIFICATION OF ROUTES.	Rico.	Paddy.	Wheat.	Gram and pulses.	Other fords grains.	Jute,	Gunuy- bage.	Lineed.	Mustard news.	Tea, Indian.	Cotton, raw.	Rilk,	Re- fined.	Un. refined,	Unmanu- factured,	Manu.
	Mās.	Mda.	- Mds.	Mds.	Mds.	Mds.	No.	Mds.	Mda.	Mds.	Mds.	Mds.	Meta,	Mds.	Mda,	Mds.
" river stimmura Indian	17,43 946 30,093 4,47,628	78,014 111 9,784	8,124 92,337	02,522 3,664 1,15,962	473 11,025	4,63,137 2,79,138 21,748	585,740 44.250	20,149 11,120 31,868	0,744 3,904 1,14,630	87,100 51	8,868 8,755 1,81,851	180 210 1,833	1,873	\$8,609 81,860	4,686 16k 7wz	2,999 44. 303
Rasterr Bonuni	15,238	136		25,193	633	9,85,860	843,780	17,000	11,084	1,933	6,214	939	-94 + 1 +	20,003	17,061	000100
mad	71,590 98,521	4,659 5,778	*****	20,731 2,030	******	87,117 8,07#	19,304 32,250	3,650	877	110	10,279	2	7,782 86,463	23,412 20,379	3,990 456	949 930
Grand Total of (3 89	23,10,330	92,071	1,09,863	2,17,711	P.13:	11,03,670	1,539,610	84,786	2,12,076	30,700	2,10,100	8,203	41,383	1,26,968	17,483	8,077
Imports In (1889	20,10,275	1,15,610	89,593	2,23,853	18,169	9,95,467	1,598,410	93,536	2,08,683	24,364	1,27,886	2,403	21,820	92,103	24,888	3,177

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported Inland from Calcutta during the month of February, 1890.

### EXPORTS FROM CALCUTTA.

	Cotton pred	w-groods.	Cotton I	w.st.				Cotton pre	en-groods,	Cotto	twint.		
R'hither experted.	European.	Indian.	European.	Indian.	Salt.	Gumpy- bags.	Winther expected.	Euro- pean.	Indian.	Euro- penn.	Indian.	Balt.	Gunny-bas
		+ 1					CHOTA NAGPORE.	ks.	Ro.	Mds.	Mdn.	Mds	No.
1	Ra.	Ra.	Mds.	Mds.	Mds.	No.	Hazaribash	67,125	2,100	*** **	73	7,224	8,90
						•	biti. bh sailt	10,710		33	âud	19112	310
Towns .		1		1			Manbhoom	1,02,563	339	814	1,433	11,130	16,70
BESGAL							Total of Chota Nagpore	1,82,930	2,831	257	3,017	20,437	20,14
ardwas	2.10,961	189444	439	1,851	85,663	104,243	1						40,18
etherm	2,01,176	144.44	2,853	63	15 494	les chà	Grand total of supplies into						
da puze	N 1.317	6.540	12.55	130	19,782	4 3 str 20,557	the Provinces under the	80,87,079	\$2,072	13,000	13,969	8,78,070	1,223,03
r'ersunnahn	1,47,565	11,652	307	800 141	9,615	20 944	Bengal						
illia or	3,35, 21	*****	1,766	6	E1, .73	64,736			-			-	-
ACCOUNT TO	77,6.09 1,50,7 9	491 100	321	*** *	15,450	2,695	OTHER PROVINCES.	6,00.991		81.63	461	44,534	2
servicetabad	72,133	£,000	52	22	61,1250	12,000	Sorth-Western Provinces	0,00036		1100	-	00,00	25,33
maripide m	An.3%1		473	E E	10,145	16,105	and Onda	21,40,55.	4,2%	5,454	477	31,829	- 311,50
palinarys	4 115 1172		1 1		1 . 613	5.5.15	. Panjah	a projecto		351	38	- decor-	121, 4
CESANO	1,84,257	447 14	67	*****	100,000 a 300,000	3,570	Central Provinces	61,500	337	103	6	detera	16,60
Istalli con	1.7= .003	100 00	337		21,000	1,433	b 14F	3.50			******	2011	20,53
ry-rleng	67,783	******	257	*****	6,071		Nizatio's Tueritory	0.78	49.1	7	1.0.41	.,,,,,	04 1 4
iguarros	2,00,719	*****	217	45	6,776	1,645	Bombay	11,51	480	245	1 4414	*****	- 341.77
rresipers	3, 18, 184	* 100	413	1	26,000	6,245	Yende verry	\$5,67,0	CBCCisp	47544	1,006	******	186.50
in Samuel in	2 20,500	000000	1,635		45,000	10,000	Streamh	9,93,549	17.	617	719	******	2,830,04
r-perentigh	1,045,597		E .	11.00	19,595	1,559	Smills ***	111	11,101			414 BL	-
morati m	1,15,577	23.7 *	129		4. 8 -	Day Acres	Office places	61.25	3.0.0		20,454	******	5,6(3,9)
oakholly	200	PEF 11	9.20		3,850 5,185	25,000	Grand Total of 1 1:00 .	,10,11,72	45,193	19,422	37,617	11,52,127	10,666,004
					0,104			1,10,16,		20,1 65	15,651	8, 14,61	14,650,84
Total of Bengal	63,33,763	20,383	11,759	2,200	5,6+,700	513,001	The Sea-borne Trade of 1990, was as follows:-	Onicutto :	n these a	Caples c	iuring ti	he month	of Polyner
REMAR				1				near ease en					
at can	2,45,592	R40	1513	2200	21,231	79,745	LMPORTED INTO CALGUTTA-	Ra.*	Ha,	Mds.	Mda.	Mdn.	No.
FA	3 40,114	2/10	671	453	10,1 5	48,755	From Foreign Ports-				1		
ten berfante	1,0 ,565		25	419	21, 23	2,104		1,14,54,427	100 00	10,503	*** *	8.23.235	And the second
enlettungs on	6,08,215	110	14	1,000	45,471	Sta Trous	Other Foreign ports	63, 42		2.8	*****	1.76,000	22,55
243 444	8,11,119	000	44.000	100	141,211	10,555	Watel of Version Teads	1.18.12 420		10,791	-	2 40 B 10	
.01PMF885 +111	3,397,166 0	110	38	554	15, 11	36,4.0	Total of Foreign Trade	1,18,17, 03	-44 407	11/2/10/2	*** *	6,09,241	2,5
AND POPU and	8,58,190	110	46	366	11,536	48,660							7
	1,40,654	281 61	155	-600	7,807	14,500	From Indian Porto-						1 00
-11 All and	2,90,757				11,750	4,1560	Bombay		1,07,175	*** **	6,776	1',00%	8841 *
a stata ]		4,820	170	6454	13,275	70,590	Other ports in Madras	8.83	6, 20	*****	. 97	13,700	
a stata ]				4.6.0	1,66,575	413,795	Burmsh Other Indian ports	17,530	23,10 /				F-3 1
otisti ntusi Pergunnaha	82,24,377	6,100	G7.5	4,8 9	a promotion of re-				· miles				147971
a state		6,100	67.5	4,5 9	19110000		Total of Interportal Trade	81,130	1,17,250	*****	n,H71	30,191	pypare.
Total of Behar ORIBBA.			67-3	4,5 9	19702010		Total of interportal Trade	10.000 to 10.000	1,17,250	-	6,871	50,191	dest
Total of Behar  Ontinel.	81.14,377	•••••				85,750	Total of Interportal Trade Grand Total of Im- ( 1890	1,13,10,050	1,17,250	10,791	6,971	30,191	81°23
Total of Behar					21,241	85,750 211,000	Total of interportal Trade	10.000 to 10.000	1,17,250	10,791	6,871	50,191	done

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic experted from Calcutta during the month of February, 1880.

BESCIFICATION OF ROUTES.	COTTON PAR	ion-ucobit.	Corros T	1	<b>G</b> alo	Gunny-bage
	European.	Indian.	European.	Induta.	Salt.	guay o q
	Rs.	Ra.	Mda.	Mda.	M da.	No.
rail ( Last ind an Redway rend )	1,61,600 61,11,000 62,11,000 83,785 1,01,000 6,100,63	6.940 26,620 21,752 5 Ju	2,691 5,458 4,750 7,664 451 1,661	5(M) b, Md 4 118 27, Mm	2,54), 448 24,240 2,40, -75 54,777 6,454 25,248	76.33 67.48 1,148 97.7 1,118 0,217.43
Grand Total of Exports in February { 1650	1,10,10,725 1,10,50,709	45,122 50,929	100,122 26,734	87,297 10,651	6,51,197 6,50,518	10,885,8 14,649,6

Statustical Department, Inc 17th May, 1500.

P. NOLAN, Secretary to the Goet. of Benyal.

### Results of the Meteorological Observations taken at the Alipore Observatory from 11th to 17th May 1890.

			50 2	barometer		Tempe	RATURE	L.		Hranoi	CETAT.		Wind.			
Month.	Date.	Maximum in sun.	Number of hours bright sunshine.	Mean pressure bare at 32° Fabr.	Mean.	Maximum.	Range	Minimum	Mean wet built.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Weather.
1590.		0		Inches.	0	0	0	0	0	Inobes	0	x			Inches,	
May	11th	152-0	93	29 646	89.7	97.4	16-9	80.5	81.6	0.970	78-8	71	88W and 8	203	Nu	Partially cloudy
81	12th	162-1	10.1	-684	89-5	8.96	15-7	80-6	80 8	1984	77-2	69	88E, S and 88W	232	•,	Partially cloudy
p1	18th	150-9	40	785	85.1	91.8	11-8	80-0	78-5	-887	75-6	74	SSE, ENE and variable.	972	0.69	Chiefly cloudy
12	14th	149-8	5.8	-811	82-3	8.08	17:1	73-7	75.1	777	71-6	71	SSW and variable	166	0.20	Chiefly cloudy
n	15th	149-5	9-6	748	80.8	90.5	21-2	69 3	7416	778	71.5	74	SSW and variable	104	147	Chiefly alondy
"	16th	i46·1	4:4	716	78-4	87-5	20-3	67-2	78-6	766	71-2	79	ESE and variable	78	0.18	Chiefly cloudy o, d, t, p, ir.
,,	17th	152 5	102	707	83-6	92-2	18-1	74.1	77-1	644	741	78	BSE, E and variable	89	Nil	Partially cloudy.

	The same of the same days				Inobes.
	The mean pressure of the seven days	0.4		• • •	29.728
	The average pressure of the corresponding period for	24 years,	8G.'s Off	100	29.682
					Hours,
	The total number of hours of bright sunshine				53.4
	The maximum possible number of hours of sunshine			***	92-1
	Promote de La La Companya de la Comp				0
	The mean temperature of the seven days			***	84.2
	The average temperature of the corresponding period	for 94 va	ave 8 -G 'a	_	86.2
	The extreme variation of temperature				30.2
	Miles and a series and forces			***	97.4
	The maximum temperature		•••	***	
	and the contract of the contra				Miles,
	The highest velocity of the wind in one hour	***			20
					lbs.
	The highest pressure of wind on one square foot		9 0 0		?
					0/0
	The mean relative humidity	101			73
	The average relative humidity of the corresponding p	period for	24 years, S.	-G.'s	
	Office			***	72
					Inches.
	572 - 4-4-1 8-11 of main from 214h to 174h Mars 1000				
		9.01	- 000		2.84
	The average fall of the corresponding period for 24 ye	ears, our.	s Omee	***	1.07
	The total fall from 1st January to 17th May 1890			0.00	4.47
	The average full of the corresponding period for 24 years				7.23
-	tompareture to an deduced from the	a keepee of	the Harney	renh end	Thurse America

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph, and from observations made at 6h, 10h, 16h and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground. above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overeast, g gleomy, d drizzling rain, t thunder, < lightning, p passing temporary showers, ir lightning reflection.

J. H. GILLILAND,

For Meteorological Reporter to the Gost. of India.

METEOROLOGICAL OFFICE, GOVT. OF INDIA; Caloutta, the 19th May 1490.

# Meteorological Report of the Province of Benga

										37	ATIU	N ORS	ERVAT	IONS.				
				Arn	PRIMET	KW.	Wza	D.					Trues	RATURE.				
Dietra	TOP.		Representativo station,	Mean barometrio beight, 8 A.M.	Mean reduced to sea-lovel.	Yanation from mean.	Prevaling direc-	Mran wind we.	Highest during week.		-	Lowest during week.	Date.	Mean maximum	Mean minimum temperature of week,	Mean daily tem- perature of week.	Variation from nermal mean of week.	
Postes	000 0	{	Pourse Gains Pout	29:783 29:733 29:733	29-768 29-764 29-774	0 + '010	RW 68 W Variable	374 44d 3d3	91"7 90"1 91"5	16th 18th 14th	Miy	74·6 76·8 70·1	15th	10.7 91. 10.9 90	9 81'9	85'A 85'U	+1'4	
Outinek	808		Cuttack	29:686 29:713	99 767 99:771	+ '016	9W BW	161 216'e	197'6 194'8	11th	81	72.8	15th	198		91 6 87 0	+818	l
Balasore South-West N	idnapat	6 5	Saugor Island	291758	29 781	+ 7014	ssw	480	96'9	tāth	**	71.0	nmat.	93	9 80:1	87'0	+17	l
South 24-Pers	nnahs	,	Midnepore	29.633	29-773	+ '081	8	178-1	209'4	10th,	13th	6012	4 m 4 h	. 109	2 77'3	8975	+812	ı
24-Pergunnal Howenb	100 con 1	:}	Calculta .	29:739	29 780	+1023	Variable	186	102.4	11th	May	67'3	16th	98	4 76'8	65'8	+1'6	100
Hooghly Burdwan	***		Burdwan	201663	29-764	+ 006	Variable -	178'9	109'3	10th	0.0	71'4	15th	100	6 78 2	8914	+8'8	ı
Bankoora	104	ga-	Bankoora	89.444	29'746	+ 021	Variable	1681	106.0	12th	**	10.1	1006	103	3 78.0	901	-	
Borrbhoom Wort Burdwa		}	Rancogungo	-	-	-	ENE	153'8	111.2	101h	45	71'9	15th	108	0 77-6	90-6	+2'5	
Moorshedaba			Berhampore	39710	29:777	+ 017	ENR	18370	105'1	10th		60.3	16th	961		8814	+0.8	
Nudden	500	00-1	Krishnaghur	29'731	29'779	+ *095	Variable	S(c.e.	106.3	10th	20	70'8	10th	981	6 76:1	41.3	4-218	
Jesove Khoolne	900 B	-3	Jessore	29-786	29:704	+:010	82	2019	102'5	lith	20	70'9	10th	95	5 76 4	85'9	+1:7	ı
Chittagoud	001		Chittagong	29 748	291883	+ '007	82	186-6	01:7	108h		72'0	10th	80	4 78/3	83:3	+17	
Chittagong B	fi Traci	100	Domagini	29.786	29-796	+ '018		161-8	Desc.	, 10th &		reived.	loth	Bu*	6 77.6	861	+21	
Backergunge	000	#3" par	Barrisal	29-795	291830	+ '963	8	90173	9918		May	6814	a dah	87		9014	-0'2	
Noakholiy Farroodpore	100		Purreedpore	29.770	191810	+ 1983	B	175 0	100 6	10th		61.4	3.00 fs	,, 90	8 73 4	827	-1:1	
Dacon	-01	001	Dacon	39.780	291808	+1918	BAS	20112	9316	10th &	lith May	9 657	16th	90	1 72'6	81'6	-17	
Commillials	100		Commillah	20 787	291823	+ 10:85	88	16579	9613	106h	**	66.3		8.8		80%	-19	
Mymeneingh	004	***	Mymensingh.	29:759	391794	+ '035	RNB	183-7	10418	10th	**	6813		oth by		77'8	-1'0	
Bogra Pubua	000	24-	Bogra	29'743	29-71/0	+ 012	В	184:3	V811	1007		68'4	Acres Ac	lay by		81.0	-0.1	
Rajahah70	0.00		Rampore Beau-	SU 719	29*790	+'031	Variable	189'4	103.2	10th	0.0	LD 2	Leth	93	3 73 6	8814	-0.2	
Maldah	000		leah. Maidah	29 708	25/790	+ 1842	B	199-3	116'0	leth		06'7	13 <b>th</b>	93	9 71'5	88'7	200	
Dinagepere	***	801	Dinagepore	19.718	291799	+ '044	NE	111	9716 9013	10th	**	67:7		56		76'1	-8:3	
Rungpore	000		Винкроге		29*825	+ '021	,			toth	**		13th, 1 A 19th l			77'5	-870	
Julpigoree Cooch Meber	901 1	100	Julpigoree	\$7.931	80 020			215-6	96'6	10th	9.0	-	-	84	3	-	-	
Darjeeling Hi	I Truck		Darjeeling	22.024	-	-	ENB	1.90 '6	69:1	loth	**	46 3	13th & 1	dth Bp	6 4614	560	-1.1	
Purneah North Shagui	pore	3	Purneah	89°C77	39 194.6	+ '043	ENE	12817	108.8	10th	7.0	6810	148h	., 93	91 1	58.6	-1'3	
Mounferpore	100	104	Moszflerpore	29'074	29 768	+ '631	E mcT	247/3	107'4	11th	01	26.2	34th	98			-	
Durphangs	190	99.4	Durbhunga	29"850	291781	+ 030	RSE	201'3	166'2	10th	90	67'8	14th A	97 8th 90		63:3	-	
Chumperun Jarun	104	881	Chupta	29.028	29'740	+*025	Variable		104.2	10th A	Lists	67'6	lath & I	1 m y		85 4	-17	
		4	In hree	29:417	29:772 1041, US	+ '060' +	Reaterly ENA	102 3	107'+ 107 4	12 & 1 10th		7010 6215	15th	1 145			+0.3	3
Shahabad	1004 1	1	huzer .	291056	291786	+ '6,50	ENE	210.T	110.9	1010	14	en 1	16th	10 10		MI'S bo'd	-11	
0:4	H @ Ø		Gya	19°26;	29 748	+ 053	3	106'6	111.1	1013	19	6918	lath	102	.		-073	
Patna South Hhagui	and the same of th		Mankspore	2h.009	zv 7:z	+ '044	8			10th	10	2.93	ldth	197		44.9	13	
Monghyr	09A 0	}	Bhaguipore	201278	29-772	+ '047	Veriable	170-0	109'8	10th	101	87'3	14th	9. 96		188 u	-1.0	
Bonthal Porgu Hannrivagh	man's	**	hornesbogh	27:742	201787	4 '09/	Variable	25415	105'5	1-th	**	70'8 65'3	1	GUL 97			-0.2	
i chardugga Haubboom			itanchee	27 '629	29 730	+ '603	Variable	1561R	Lue S	Total	lath.	63°V	156h 14th	. 97			-01	
Binkhhoom	000		Спунция	18-596	29751	+ "LSD	Variable	77'1	311'8	10th		6610	146h	103	P3 7810	6915	+0'6	Į
		1	Sibmgar	25/1583	EN 103	+ 1064	ENE	-	8416	18th	.,	6318	itth		68 3		-3.0	
A HARAITE	***		Dhuber	29721	20'841	+*632	8	\$8.01	9517	toth	60	<b>6</b> 9 5	Isth A t	Sth (t	70"	76.2	-1.0	
		4	Milchar	20760	25.1909	1-1003	ENE	-000	96'5	10th	20	60.4	loth	. 8	0 681	76'7	-27	ĺ

Explanation.—Summary.—The normal means of air pressure and temperature are describing the average or means of the reading during the same operiod for the average of the rendered are presented at house presented at house presented by not. A court sky a non-zer by a not an over- at sky oy 10. The non-zer by temperature for the render in the destroit determined from the courts sent in by the summy not as an over- at sky oy 10. The non-zer by a no

for the week ending Friday, the 16th of May 1890.

							DISTI	FIOL OR	SERVATIO	NS.					
	smoan!	W di	6-					RAIS	PALL.						
	00	f week Halton.	07	WHEE.	Sinc	on let of mo	nth.		n 18th May	1880.	number days.	oumber days.	Representative station.	District.	
61 B 4.26.	Average clo	Rainfall of observing	Mean for district.	Normal nican.	Mean for district.	Normal mean,	Variation.	Mean for district,	Normal mean.	Variation.	A vorage Bi	of rainy d			
13 10 76	3:8 1:6 4:6	0.36	0.21	6.12	0.81	1'45	-1'21	77-88	89*67	+18'16	1.9	118	Poorne Gepalpera	Pooree	
13	5'0	0162	0'82	0.21	0.68	1108	-0.70	69°2d	86'44	4 12:61	1'6	116	Cuttack	Outtack	
12	0.8	1:23	1'48	0.80	1:40	2:36	-0.84	86'61	, 50'70	- 8.18	2.7	1.9	Balascre	Bainsore	
16	6.0	0160	1'25	1.18	1785	9:78	-1'48	61.52	69-45	-8:20	27	1'8	Saugor Island	South-West Midnapor South 34-Pergunnabs	2
10	3'7	1'64	1'89	1'43	1'89	8183	-1:34	49188	59 07	-9'25	3.0	1'8	Midnapore	Midnapore	
77	4.7	2'18	1.83	1:27	1:83	8:26	-1.73	87'20	89°61	-8-33	2.3	21	Caloutta	Howrah Hooghly	
10	816	0'21	0'07	1:04	0184	3'00	-2 28	4674	88:148	-7'15	1.0	118	Burdwan	D	
15	410	9184	0:36	0.81	6.30	1'90	1'60	37-93	87:27	+0.66	0.8	1.7	Bankoora .	Bankoora	
15	4'8	Nil	0.03	0-67	0.10	9.28	-1:48	54 29	86'06	-1:66	0.8	1.9	Капосунаде	West Burdwan	- 7
12	818	125	1:38	0.85	1'45	2'84	-0189	84143	86197	-1'56	1'7	118	Borhampore	Moorshedshad	
0	9.7	1168	0.80	1.18	1.10	8.03	-1'93	08 60	57*85	-8165	1/8	210	Krishmachne	Nuddea	- 1
16	7:8	3-20	1.70	1'63	1'20	8:77	-1:47	60'53	63:64	-812	9'8	81	Jensorn	Lhouina	
10	616	1'08	1'86	2 84	1.88	8:13	-8:37	100 06	194'74	-13168	6.0	8:0	Chittagong	Chittarene	22
	2		3'17	2'67	3'76	8:63	2109	77' 9	9474	-17.85	8'0	217	Demagiri	Chitagone Hill Fract	
n	67	0.53	0192	1.07	1'10	4:10	-243	64:32	87:49	-3:16	1'8	2.7	Barrisal	,,	24
0	3"1	4107	3:7ก	3.81	4'09	6104	-1.88	103/71	121.92	-18:82	4.9	3.0	Noakholly	Noakholly	Pt
15	57	8197	2140	2100	2:95	6'61	-1.90	71:40	68:00	+8'49	4.0	2.7	Purreedpore		10
15	8.7	616	2'88	2.46	8'61 5'61	8120	-1'46 -0'71	68'59	73 68	+13'74	4'8	3.3	Dacoa	Dacon	-
15	71	8'75	3 19	3.01	8101	6°22	-0.19	101.01	85°57 79°88	+ 32 04	610	8:6	Mymenningh	Mymensingh	-
	7.0	177	2.28	1:88	3'67	2.22	-0.00	73'16	64.42	+ 8'71	6'3	2.8	Boges	Rogge	10
10	7-7	8154	2167	1.98	8.71	2:05	+ 0.02	63:11	68*50	+2 61	6.0	2.6	Seratguage .	Pubna	
7	8*0	0 57	3.10	1.00	3'85	8.98	+0.83	61.99	19'43	+8 04	2.0	1.8	Rampore Beaules.		- 1
10	416	9167	2:57	0184	8.96	1:07	+1:11	42.52	68:80	-14'97	310	17	Maldah	Maidab	
18	0.0	4'33	3160	1'07	3'91	3:30	+171	6174	61'87	+0'87	3.4	110	Dіпакероге	Dinagepore	14
12	3.8	8:10	2185	5.19	5'24	479	+0'46	96'90	81:03	+ 10'87	4'8	216	Rungpore		
16	47	3*88	5'53	2.55	6'38	5.83	-0.89	129:71	193*08	+6 63	5'2	3'8	Julpurores	Julpigares	
16	716	8.00	2148	5.48	3.75	6'82	-0:77	142'39	133-58	+8'81	515	8.9	Derreling	Darjouling Hill Tract	Las
10	5.0	2144	1168	0196	1.77	2122	-0*65	77'64	63:18	+14'30	3'4	1.3	Purnesh	Porneah North Bhagulpore	
re I	217	1'84,	1123	0.88	1.20	1120	-0100	80.42	48*86	+4'07	8:0	1:0	Mozufferpore	117 4	
10	4'4	G*97	1:18	0.80	1'13	1.20	-0186	03.49	47:49	+6.00	2.0	1'0	Durbhunga	Durbhunga	1
28	8.0	0161	0184	0.03	0.29	1160	-1:0ñ	66.65	40174	+16'71	1.0	118	Motiharı .	Chumparun	- 11
17	11-3	0'44	0.43	0.41	U148	1.08	-0161	40.74	66'82	6'18	1.2	0.7	Ohupm	Sarup	.
10 343 344	0°0 1'0 3'7	Nil Nil Nil	0-12	0*22	0.13	0.40	-0.37	40.64	61:48	-0.8:	1.0	0.0	Buxer	Shahabad	-
50	317	0190	0169	0 21	0.30	0146	-0.15	57:67	43:16	-5.13	0.8	0.6	Gya	Gyo	
75	9.0	2*16	1.18	0,40	1.18	077	+0%1	66'66	43103	+1.81	1.8	0.1	Bankipore	Patna	-
13	4'0	8'87	1:20	0.90	1.36	0.83	+0.39	66'68	45'50	-1'02	2.8	0.8	Bhagulpure {	South Bhagulpero	
18	216	0107	1:36	0'74	1'44	1155	-0:14	6678	54'18	4.2155	1.8	13	Doomka	Southal Pergunnahe	-11
36	2'7	0'27	0.31	0135	0.33	0'97	-0*01	431113	63.10	-9 15	1:0	1.0	Hazaribagh	Hazarıbagh	1
16	8'4	1'35	0163 0 66	0.63	0.09	0.8u	-0°17 -0°67	40,74	81184 50169	-5 12 -10 53	1.3	111	} Eanchi {	Lohardugga	
17	3-1	1.52	1.24	0.10	3.75	1106	+0'63	88'40	86 12	-8'72	5.0	\$10	Chyebassa	Singbhoom	
20	914	1.90											Sibsagar		1
lic	0.4	3.0A											Dhubri	Amam	
15	8.1	4104											dichar J		1

ton years. The variations are negative when the mean for the week is has than the corresponding normal mean, and positive whon greater, denoted by 10. Under the tool Digurith observation of rainfall the normal means and a condition of the sky covered, he want was been preceded in the district, the condition of the sandymean and the district, the condition of the sandymean and the sandyme

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890.

					1	LAIMPAL	L.			Te	TAL		4		
Moteomiogical division,	District.	Station.	Agtorday, 1988 M. y.	Sunday, 11sh Nay.	Monday, 12th	Tuesday, 18th	Wednesday, 14th May.	Thursday, 18th May.	Friday, 16th May.	Number of	Rainfall of work.	Total rain- fall amou lat of month.	Average total rain- fall from lat of month.	Total rain- fail surror 18th May 1869,	Average rainfall from lag May to date.
Otenada;	Eporte	Khurdah Banpur Falso Paint Cor Salpura	207100 100110 200100	000 miles 000 miles 000 miles 000 miles 000 miles	002110 109100 000111 000000	001 se 0010 s 60000**	0108 0106	0°01 0°01	6.00	NU 8	0'84 Nil 0'88	0.88 Nit 0.94	1 21 1 01 1 23 1 03	89'87 81'00 77'74	84.40 80 25 8x 5x 6y 36
	Cuttack	Jamusingpore Banki Cuttack Kendrapara Japare Dharmasia	000+40 0+1:80 0+4+1 001+80 401+80	0000 = A 00000 = A 000000 000000 000000	**************************************	0.48	0°85 0°61 0°12 0°77	0°04 1°07	0'80 *****	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0°68 0°89 0,81 0°78 1°66	0°65 6°80 0 81 0°78 1°66	1'64 0'50 1'45 1'98 2'03	76'74 56'97 78'19 7: 40 (160'10)	80 R8 88'37 6: 18 87 A6 89'71
	Balacore	Chandball Bhuddruck Sorah Haissore Jellasore Ranpodak	000 00 000 000 000 000 000 000 000 000	000 000 000 000 000 000 000 000 000 000	000 000 000 000 000 000 100 000 000 000	0.30	0'80 (1'50 0'6) 0'17 0'18 1'00	0°13 0°15 0°18 0°60	1.88 0.50 0.40	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0'48 1'98 1'17 1'50 0'89 1'08 8'63	1786 1:17 1:20 6:89 1'02 2:68	2.74 2.27 2.36 2.40 1.66 3.86	87 00 62 64 40 71 81 77 45 80 60 04	88 100 83 161 87 100 88 85 80 02 60 01
Saveal.	Midnaporo "	Contai Saugor Island Tumlook Hidnapore Ghattal Garbette	000 to 1 000 to 0 000 to 0 000 to 0	001000 000000 000000 00000 00000 00000	100111 100111 1001111 1011111 101100 101100	041000 011000 011000 01100 01100 01100	0.18 0.80 0.80 0.80 0.80	0.20 0.81 0.81 0.81 0.81 0.81	0°40 0°90 6°25 0°76 1°00	3 3 3 1	0.46 0.48 1.54 2.40 1.54 2.40	0:46 0:09 1:7u 1:56 2:40 2:93 0:86	2:41 2:38 2:58 3:50 1:50	67°09 68°33 52°30 40°39 47°71 62°70 63°03	67-74 73-27 84-71 86-95 62-46
	24-Pergumah	bour Country Town Alipore Jail Barrackpore Dum-Dum Baranet	200000 000000 000000 000000 000000	600 000 600 000 600 000 600 000 600 000 600 000	600 per ope 60 per ope	00 000 00000 00000 00000 00000	1'00 0'43 0'81	0.83 0.18 0.18 0.18	1:18 0:84 1:36 0:98 0:31 1:13	3 3 2 2 2	1.00 1.10 1.00 1.00	9180 1129 1100 2 31 0 85 2 13	8-19 ? 8-16 8-16 3-25 3-85	87'38 89'65 86'10 65'79 67'49 61'81	61°00 87°80 87°80 80°70 48°30
	Howard	Busesrhat	#00.40	100 000 101 101 100 101	020400 020400 0	0101	9.08	0113 0163	0°85 0°87	4 2	8:29 0:75 1:00	0.88 1.00	3:18 4:48	99,29 91,68 91,68	88 79 88 79 89 17
	Hooghly	(Coleberiah.) Serumpore Hooghly Jenatabad	900 0 mm 600 rc	\$60000 	000 tad #42 (01	*****	0.00	0°18 0°03 1°16	0.83	2	1'10 0'08 1'28	9°37 0°37 1°96	3.27 3.27 5.00	59°16 34 53 65 86	87'90 56'02
	Burdwan	Culpa Surdwan Cutwa Hanesguage	000000 000000 000000 000000	000111	010 000 01100 006.5. 01100	0°17	0.03	0.03	202000 201024 211100 201010	No.	MA MA MI MI MI MO	0.41 0.40 Nit Nat	2'81 2'55 2 61 1'33	44.73 49.43 46.02 67.57 83.60	63-36 86-90 86-60 83-66
	Rankoora	Bankoora Basampure Mulara Kisten Index Laispore Assia Ganyaialghats Response	000111 000 10 101000 -A18 0 001AA 111001 ABATT	001110 00000 00000 000100 000100 000100	000 for	000-000 000-000 000-000 000-000 000-000 000-000 000-000 000-000	000 POF DOS 100 POF POF POF POF POF POF POF POF POF POF	6°28 8°28 0°20 0°24 1°45 1°00 0°97	000000 000000 000000 00000 00000 00000 0000	No li li li li li li li li li li li li li	0°20 0°30 No 0°30 0°24 1°46 2°40 No 1°10 Bist	0788 0788 Nr1 0709 0726 1746 1700 Nr1 1719 Nr1	1 76 1 80 1 70 1 70 1 70	53'25 59'98 67'81 47'30' 53'44 48'36 60'68 60'79 85'99	80 36 80 31 80 31 9 9
	Reschhoom	Hh. Scory Heta pero Rampure Haut Hulpure Murarut	**************************************		11. ppp	0°06 0°20	0°01	000.000 010.000 010.000	000000 201700 220000 440000	2031 1 2031 2033 3	0-07 Nii 0-10 Nii	0°47 Peil 0°40 Nii 0°43	1'667 1'661 1'803 2	60'92 50'21 43'30 57'33 66'73	65°06 66°23 66°44
	N 44 d-48	Ranaghat history bur Chicaganga Military re Kommitee	.p.000	#00007 6. 180 840 80 110100		8°07 0°90 0°06 1°36	0100 0100 0100 0100	1'84 0'23 0'15 0'06	000 Mpr 000000 1+1+00 Mprevool	3 3 3 3 MB	101 101 1:18 0:81 3:81	0°80 1°84 1°83 6°36 1°76	2:69 3:48 3:45 2:05 3:34	\$8785 4619 8396 8576 6329	66°13 66°29 66°25 63°68
	Khooina	Hatchira Hatchira Kimus Nukiporo Rumpai	202-01 202-01 202-01		6:20	6402 ******	0'35	0.30 5.40 6.30	1°10 0°44 1°41 0°20	8 3 3	172 0'64 9'19 1'73 0'86	1°88 1°08 8°27 1°78 0°84	3:56 3:05 4:01 2	60.79 5× 85 62.67	64:97 71:193 66:45 P
	Jamore	Narati Jessers Jimmedah Singerrah Bongong	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001 ang	1 06 0 162 0 160	1'30	0°16 0°66	•••••	0.22 0.23 0.23	8 6	1108 3790 \$134 \$114 \$104	9:71 4:07 2:51 2:51 0:06	4-E1 6-14 8-37 6-25 8-87	89'42 71'76 86'68 66'61 80'02	86 49 83 07 63'51 60'86
BAST BUSGAL	Moorubedabed Chiktageng	Kandi Beliampore Laibari Asimempe Jungjore Laleia Jungjore Jung Jungjore Jung Jung Jung Jung Jung Jung Jung Jung	. 41 ego	100.00 100.00 100.00 100.00 100.00 100.00 100.00	000-00	1'08 1'00 0'00	0°19 0°40 0°40 0°04 0°04	0°28 2°45 0°01 1°53 2°55 0°56	000000 00010 000103 001300 101300 101300 000310 000310	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1'68 1'10 0'27 2'46 0'41 2'02 2'56 0'71	1°68 1°58 0°67 8°63 0°47 8°09 8°46 0°71 1°30	2 12 2 00 2 48 2 20 2 11 2 51 2 7	68 '58 68 17 9 87 '90 63 '98 65 '88 65 '88	60 07 67 57 66 00 86 66 83 13 86 36
	Unitegong Hill Tracts.	Chittusing	178	0°45	0-12	000 and 200 and 200 and 200 and 200 and	0°44 1°24 0°40 0°50	0°35 0°36 0°15 0°08	9°0.6 0°17 0°10	4	9'90 1'88 8'90	9:40 1:33 8:30	8:00 8:03	132°27 10°70 70°61 76°88	26610 203798 1
	Beokergunge	Patnakhally	201000 201200 201200	000 000 000 000	000 000 000 000 000 000 000 000 000 000	######################################	0.19	.6*17	1'90 0'94 0'45 0'65	1 1 2 8	1'10 0'34 0'30 0'46	1'00 - 0'84 1'45 0'73	6'18 8 tot 4'11 8'97	93:60 70:00 70:40 80:25	97'91 79 34 71 13 85'91

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 16th of May 1890 - would.

					R	AIFFAL	6.			Te	TAL.				
Meteorological Divinion.	District.	. Station.	Baturday, 10th May.	Sunday, 13th. May.	Monday, 19th May.	Theoday, 19th May.	Wednesday, 14th May.	Thursday, 18th May.	Friday, 19th May.	Number of rainy days.	Rainfall of week.	Total rain- fall since lat of month.	Average total rain- fall from lut of month.	Total enin- inil since 15th Hay 1889,	Average runfall from 15ts May to date,
-concid.		Gournoddi Bouphal	P00001	800.50	*****	1:00	1180 0126	0.90	0.08	3 2	3°10 0'92	3'10 0'00	<b>P</b>	71 '01 96'86	3
	Neakbolly	Nonkhelly Penny Harishpers	*****	1'90	0100	0.48	401 140	0°80 0°56	0.60 1.89	6	4'44 8'07	618/1 8 60	8186 6188 1	115°96 91°30	15216 15018 1
	Furrodpore	Madaripore Furrecipore Goalundo	000000 000000 000000	0.89	1'20	0°14 1'67	0*12	9'72 0'34 0'50 0'57	0'84	2 5	1 '03 3'22 2'94	2 74 4*14 8*84	5'4A 4'24 4'14	71165 7316 68192	6616 6616
	Daoos w	Munahigunge Dagoa Narungunge Maninkgunge Joydobpere	000000 000000 000000 000000	0°26 1'12 0'60	2°36 0°21 0°27 1°86	0'3a 0'18 0'09 0'16 0'06	0°11 0°20 0'48	0.80 0.10 0.18 0.18	0°03 1°21 1°09 0°20	6 6	1'60 8'01 3'32 1'57 3'36	2:87 6:96 2:97 2:51 6:86	5'44 5'18 8'00 5'84	87:00 91:65 91:66 70:07 80:88	8417 7313 7814 6314
	Hill Tippersh Tippersh	Agartola Comilla Chandpore Heahmunberia lamehandra-	0.04	1'10 0'15 0'00 1'66	1°63 0°35 0°78 1°40	0°63 0°87 0°83 0°60	0188 014 0140 0130 0101	0°84 1°15 0°63 0°60 0°15	0180 0180 0123 0178 0111	8 6 7 8	2:81 4:77 2:39 2:78 6:21	6:94 5:60 8:40 6:67 5:81	6:87 6:07 5:7:	60167 71186 75186 66115 7018	7H 1 Start BATH 7D 1
		Nasirnagar Daudkaudi Kasba Lukekau	0'48	1'52	2°30 0°75 1°20 0°30	1'80	1'80	1'80	2°18 0°71 0°70 0°15	4	5*95 8*40 3*82 3*79	3:40 3:40 4:54	2	68184 68184 78185 81789	7
	Mymendagh	Kishorszunse Atia (Tangail) Mymensingh Jamalpore Netrokona Subornakhally Durgapore Skerepore Town Downagony	000000 000000 000000 000000 000000	0'45	9'81 1'85 2'00	0°11 0°30 1°69	9708 0'69 1'26 0'80	1'90 8'21 8'00 0'40 0'48 1'18 9'18	0.00 0.10 0.10 0.11 1.20 0.11 1.20 0.11	6 4 2 2 2 2 4	4123 3183 4198 1171 2116 2145 3 03 1164	8-20 2-96 8-56 8-92 3-34 8-96 9-13 8-76	5°79 3 95 6°02 8:11 8:73 ?	83:04 76:-0 111 25 90:40 135:32 40:16 16:-65 102:97	0477 flora 8616 7510 8617
NonTH	Pahon	Pubna Beragungo	100000	-02001	0100	0°96 0°46	0.10	0°50 1°81	0.08 1.46	4	3.2h 1.80	1:84 5:61	\$160 \$171	83:14 78:03	41.6 63.1
Buseal.	Bogre	Sheraporo Nowkhilia Bogra Panchbibi	\$\$0 10 000 fo	0.38	******* ******* *******	0 25 0'28 0'35 1 67	0°41 0°56 0°40	1°18 9°64 1°73 1°97	0°10 0°46 0°05 0°02	5	1°91 2°.0 2°93 3°93	2°29 8°44 2°11 4°01	3 42 3 94 3 98	68:01 73:ud 77:45	21.49 21.49 21.49 49.59
	Rajabahye	Beanisah Nattere Natere Hacgaon Hando	######################################	000120 000001 1001- 100001	100000 10000 10000 10000 10000	0°62 0°02 0°38	0°37 0°31 0°20 1°82 1°50	0145 8103 8105 0125	 	91 91 92 93	0163 3.83 5.83 5.83 1.88	0°63 3°89 4°53 2°30 1°55	2 40 3'44 1'64	74'01 80'32 70'66 63'70 43'64 47'40	8N14 62 s 86 s
	Maidab	Maidah Chanchal Gajol	000000	-00 pp	DR0 mg	1'46 1'85 1'30	0°07 0°28	1:40 0:14 0:75 3:40	0'88	3 3	2187 2127 2160 4187	2187 310P 3182 4187	176	66°13 38°35 62°71 87°83	8018 6017 1
	Dinaguporo	Mobadebpore Churamon Raigunge Dinasepore Ralacephat Thakoorpon	000000 1-4-00 000000 010000	000 h	0.61	8°97 2'80 1'17 1'16 1'62 0'16	1°30 0°15 0°16 0°16 0°16 1°86	0°31 1°20 2°31 1°79 0°37	0.43	3 4 4 8	2189 3139 2152 3189 4131 1193	8.37 8.88 9.88 9.10	2.69 1.80 2.63 2.73 1.14	56*16 85*33 85*18 77*09 67*83 97*00	61'4 85'4 63'7 eura 84'&
	Bungpore	Bhawatigungo (Gyabanda).		101000	1'86 0'16	1'18	0-18	0163 0150	0'38	8	3 57	7:00	4'89 6'11	100-78	70.7
		Rungpero Kurigram Hardogra (Nilphamari).	760 vo v	0.00	0.43	0'81 0'86	0°21 0°11 0°67	0'24	0°12 0°26	5 3	2.42 2.42	4:30 3:14 10:68	6:67 3:93	93.84 100.88 82.88	73.4 87.10 94.11
	Julpigardo	Julphores Alipare Docar Fallacetta Debiganj Bhagatpore	0°02 6°15 0°15	0:41 0:18	1'00 0'71 0'11	0°87 0°61 0°52	2:17 0:65 0:86 1:00 0:87	1.14 0.09 0.01 0.04 0.04	0°07 0°38 0°38 0°09 0°78	6 77 8 6	8'97 3'33 2'76 4'41 4'06	4°25 4°23 3°36 6°11 5°83	473	94*45 183*10 183*07 90 47 151*06	337 to
	Cooch Behar	(Nagrakatta), Dinhama Crook Behar. Mickilgungo Matahbanga Bura Billiguri	0°14 0°30 0°34 0°46 0°10 0°10	0°83	0.06	1'18 0'05 1'00 1'70 0'73 0'18	0°46 0°43 1°25 0°06 0°85 1°10 1°55	0°18 0°25 0°16 0°36 1°53	0°18 0°16 0°16 0°47	6 8 6 5	2:33 1:09 3:16 2:21 2:84 5:16	4°09 11'64 7 '20 8'71 4'87 4'88 5 11	8133 7105 6136 6136 7164 2199 6129	109'80 140'11 131'04 131'59 204'33 130'50	107:97 \$30 up 100:02 120:41 \$12:20 \$1:00 \$10:13
	B	Darjeeling Kulumpong Kuracong	841400	0(0411	0'08	0.89	0°73 1°80	0°06 1°66	1.42	8	4.28 1.52	9 14 6 08	8118 7 2185	97'93 78'80	90112 at 2
ORTH BURA	A DESCRIPTION OF	Arramah Fucuesh Gondwara Balarampere Matteri	0.30	\$00000 \$00000 \$00000 \$00000	000 000 000 000 000 000 000 000	0.30 1.10 1.90 1.40	1'94 1'94 0'38 1'90 1'80	0.04 0.01	0.18	3 3 3	5.20 5.20 5.90 1.86 1.86	8.30 8.30 5.30 5.30	2 93 2 91 1 76 7	107'78 82'18 66'21	78 96 65 71 85 71
	North Bhagul- poru.	Kaltagenj Maddaporo Respuol Protebgenj	200000 000000 000000	101.044 111.044 111.044	49+200	0.80	1.03 0.20 1.13	0.10	000010 100011 100010	1 1	0,90 3,13 0,00 1,81	8'37 0'50 1'19 0'50	1'98	62:31 60:13 80:67	80°80 81°78
	Durbhungs	Tajpore Journhouse Mathubani Rahere	0.00000 0.00000 0.000000	000000 000000	******* ****** ******	0.09	0'70 0'97 2'45 0'64	0.18 0.18	+05000 +00000 +00000 +00000	2 1 3 2	0°80 0°97 1°63 0°80	0:80 0:97 1:43 0:80	1°23 2°42 1°53	43'48 61'44 65'78 76'89	45°43 46°41 ?
	Moanflerpore	Bitamarhi Monufferpore Hajipore Pare Mahas Sustan	\$00000 1,1554 20000 00000	960000 160900 100900 100900 100900	0007000 000701 000701 000701	0°07 0°38 1°70 1°80	0°63 0°85 0°85 1°80	1°18	000 684 000 684 000 000	1 1 1 1 1	0°70 0°85 8°88 1°00 1°50 0°71	0.70 0.65 2.36 1.00 1.70 1.50 0.71	1°48 1°51 0°87	87'06 49'17 46'15 38'80 41'71 1	46*74 46*50 43*93 7 7

Statement of Rainfall in Bangai for the week ending Friday (8 a.m.), the 16th of May 1890-concld.

			1			F1007 7.1				-	-				
					1	LAINPAL	L.			Los	AL.				Ачегико
1=teacological	1 93	Station.	. 1eth	nth	18th	listh	· .	18th	16th	P. C.	ō	Total rain-	Attente	Total rain-	from 180
Perenderes.	District.	Albitos.	Raturday.	Runday.	Monday.	Tuesday, May.	Wednesday,	Thursday, 1	Friday,	Number rainy days.	Rainfall wook.	tnouth.	lst of mouths	lath Way	dare,
outh Krnas	themperee	Motihari . Bettish . Bassa .	\$41 +41 +41	1 1 000+1 - 400+4	*****	6.03	0°62 0°12 1 45	966341		Nn 2 1	N#1 0'07 0'12 1'45	Nil 0:67 0:12 1:46	1'63	73:53 5::34 7::27 53:39	47'3 81 a
	Sarub	Gopalgunge .				0.50	0.19	1 11100	700044	1	0 14	0,80	1°00 0°77	86°87 4.10.3	46°0
отти Винав	Shahahad	Chiprah Buxer Dichres Builesonh Arrah	000 000 000 000 000 000 000 000	001000 001100 001100 001100	000.00 000000 000000 000000 0000000000	0.04	0183 0188 0188 0188		**************************************	Nil Nil 1	0 99 0 45 Nil Nil 0'08 0'07	0 104 0 45 Nil Nil 8 08 0 07	0.70 0.40 0.23 8.81 0.24 0.66	61'82 65'17 43 '85 88'61 80'61 48'82	4219 3018 4118 4313 4311 4119
	(30 g	Aurungabad teru Soundah Joinmbad Arocil tanilagar Sherohati	981674 74 09 740 01 140000 140000 171111	,	*****	6715 0700 0707	0110	700 · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Na 1 1 1 Nu Nu Nu Nu	NII 0'90 0'18 6'00 0'67 NII NII	NII 0 90 0·15 0·00 0·47 Nii Nii	0.43 0.83 0.03 0.40	25 70 01 10 30 77 27 90 25 90 29 30 29 10	64*3 64*3 62*8 61 8
	Patus	PakriBarawan	16.85° 26.144	444.00	204 L4.	1-16	ends	0.54	47.004	Nil	Nil 218	2.18 1.31	0.75 0.28	81 '90 63'78 46' 99	631
	}	Heliar in Barrh in Hilso	900 (N)		000	0.40	0 43	001 044 0011 11 111 10 111	***	NII NII NII	1'81 N0 1'28 N0 N0	Nil 1 25 Nil Nil	0°83 e°94	61 186 87 126 64 133 85 156	431
	Mongbyr	Regomerai Monchyr Janui Gogri	******	 	***	1 07 1*58	0 10	0°41 0°0° 0°14		3 1 1	1'88 1'60 0'14 2'45	1°58 1°60 0°14 2°45	0°97 0°93 0°91	60°76 63°35 81°72 61°66	42° 47° 46°
	South Bhagul- pure	Shoikpure Hagulpore Hagis Kalg-ng		******		1°50 1 °3 1°90	0.61	0°15 0°17 0°38	64907- 	Nii 3	2.42 3.30 3.30 3.30	N11 2:29 1:20 2:23 1:30	1'07	43'32 47'41 42'13 46'78	66
	Southal Pergunnalu.	Bongaon  Bajmehal Godda Peksor Nya Boomka Deoghur Jamaara Mohaguma Nunshad	000 mm			0.489 0.75 0.75 0.07	1'30 0'32 0'40 1'25	124	**************************************	a a Nii	1'30 2'25 2'16 3 30 6'07 2\11 0'21 1'25	\$782 \$78 \$76 \$76 \$77 \$11 \$125 \$11	1:30 1:36 1:37 1:48 1:48	60°C0 60°C0 60°C0 60°C0 60°C0 60°C0 60°C0 60°C0	86: 60: 60: 87: 81: 63:
MITTLE NAG-	Humriberb	Paginampa (Giridi).	100.00		.4.00		0"18		48.10°	1	6176	015	0°60	30:30	30
		Remanded Semagurab Mahndi Hille Jacomra Hille Marke Chatre Karagdeka Hamgkar	\$4.00 \$6.00 \$4.00 \$6.00 \$4.00 \$6.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00 \$4.00	**************************************			0.50 0.50 0.50	0°47		1 1 2	0°23 0°20 0°30 0°30 1°80	0°27 0°10 0°10 0°89 1°80	1-12 5-77 1-25	32°5; 67'90 60'96	80 - 60 - 60 - 60 - 60 - 60 - 60 - 60 -
	Lobardugga	Lohardugga hanahi ralamow Sillé Bolumat	100.44	***	-		0.88 0.50	# 50 m	0128	NA 1	0°85 1°85 2611 0°80	0°46 1°46 Nil 0°90	0.40 1.40	67*29 67:54 36:30 33:00	*83 år. 40
		Hosseinnhad	,.,					-		NII .	Nil	Nel	2 9	46179	
	Hingliboom	Chyeliam Chekrosagr- per.			. ,84	1	1 10	0:14		2	2 62	3.23	1'86	h\$*4D	2.6
	Manhhorm	Kaharagura Francisa Francisa Francisa				• 16	1 15	0197 018A		2 1 1	2.43	1115	1:32	80'86 66'09	SN 67
		Laghaneth- pard. harrabhaan shaida	*****		********		0.3	070	***	1	6:74 0:74	070	3	34723 44167 44159 52 50	67

Explanation. Indicates that no rain has fallen. If the return in any day has not news recovered, the corresponding spaces in the total rainfall columns are left blank.

CALOUTTA, the 19th May 1890.

SUMMARY OF THE METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 16TH OF MAY 1890.

The week commenced with fine weather over the whole province, pressure was very low but rising, temperature excessive in nearly all districts. normal circulation of winds obtained, the westerly winds in Behar extending as far as Bhagulpore and the south-westerly winds from the Bay over the greater part of South-West and East Bengal.

These conditions lasted on the eastern side of the province for one day only, for on the 11th a much more rapid rise of pressure in East Bengal as compared with that on the west caused strong easterly winds and probably an inrush of the moist winds which had followed the depression into Burmah a few days before. Rain began to fall in East Bengal on the 11th, but it was chiefly confined to Dasca, Furreedpore, and Tipperah. A few showers fell in North Bengal also, but these do not seem to be due to the same disturbance, as they were not numerous on the 10th, and continued to diminish in number and amount till the 12th. Meanwhile, in the other districts very hot dry weather prevailed, more especially in Orissa and South-West Bengal. On the 11th temperature fell rapidly except in South-West Bengal and along the extreme west, followed by variable changes on the 12th, and as the moist current spread over the province, causing storms in Behar and South-West Bengal on the 13th, the rapid fall extended to these districts, and by the 14th temperature was normal or in defect. On this day the disturbed conditions appeared in Orissa, and over South-West Bengal and the adjacent parts of Orissa and Chutia Nagpur northerly winds were blowing, gradients still continued steep from south-west to north-east, and from the general bearing of the wind directions, a steady current seemed blowing from North Bengal over the whole province. General rain was falling except in the northern districts of South-West Bengal, and by far the heaviest falls were in North Bengal and the Mymensingh district. Similar conditions obtained till the end of the week, pressure continued lowest over the west or south of the province, but from the 14th gradients slowly became less steep, though the wind circulation remained. Heavy showers fell and temperature underwent large and irregular changes, according to the nature of the storms as they occurred at the various statious. Pressure was falling during the latter part of the week, and though everywhere in excess. the difference from the normal was very slight in Orissa and about a twentieth of an inch over the nothern half of Bengal On Friday the 16th, a shallow depression was over the head of the Bay, but, though it may have caused the slightly cyclonic circulation at the neighbouring stations, it had little influence on the general weather which was everywhere recovering from the disturbance.

Thus during the greater part of the week, all the meteorological elements have been subject to large changes, and the unsettled weather has been general over the whole province

during the last three days.

Pressure-On an average for the whole week has been a few hundredths of an inch above the normal, but this is due to the large upward and downward changes balancing one another. At one time the difference from the normal has been nearly two-tenths above, and at another as much below, while in the middle of the week differences from west to east were unusually large, giving steep gradients and the strong easterly or northerly winds which then blew. At first defect varied from 'I inch to '17 inch, but owing to the very rapid rise on the 11th in the north-east, defect on that day was generally below a twentieth of an inch. On the 13th there was a rapid rise in Bast Bengal and a slow rise along the northern timit and in Orissa; on the 14th the rise was rapid in the western districts and slow in East Bongal, after which there was a brisk fall on the 15th and 16th

Temperature—Was everywhere above the normal on the first day of the week by from 5° to 12° over the greater part of the province. With the commencement of the disturbed conditions local rapid falls occurred, the south-western districts being the last to feel the change. On the 11th the rapid fall extended over East and North Bengal and part of Behar. On the 12th it was confined to East Bengal, on the 13th to South-West Bengal and Orissa, and on the 14th to Chutia Nagpur, South-West Bengal, and Orissa; but on this day the fall in Chutia Nagpur exceeded 10°, and 4° over the greater part of the province.

There was then a very large defect over the western districts, gradually diminishing towards the east, and it continued with very lattle change till the end of the week, when defect varied from 6° to 10°. The means for the week are all below the normal except those for South-West Bengal and Orissa.

Ramfall.—A few local showers were falling in North Bengal on the 10th, but elsewhere practically no rain fell. On the 11th showers became more numerous in East Bengal, and on the 12th rain was almost general, but beyond the local showers in North Bengal, it was atill dry wenther over the rest of Bengal. On the 13th general rain fell in all districts except Orisea. Chutia Nagpur, the west of South-West Bengal, and the southern half of East Bengal, and on the 14th it was falling at almost every reporting station. Rain fell off towards the end of the week in the western districts, but scattered showers continued and general rain in North and East Bengal. The average fall is above the normal in all districts except South-West Bengal, but defect in that district is only a tenth of a inch. The fall in North Bengal is 2.7 inches (more than an inch in excess), in East Bengal 2.5 inches, and in the other districts about one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 16th of May 1890:—

					Tomp	ERATU	MB.					R	ATUPA	Lib-				
			rook.	week.	Avere	pes for	week.	above or week.	(	If was	<b>4.</b>	Re	iny de	yn.	Since of mo		Since	10th 1880.
Marnonol Divisio		A.E.	Bighest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week below normal mean of	Average.	Normal average.	Variation.	Average number in week,	Normal average num- ber in week.	Variation.	Average.	Horael average.	Average.	Hormal average,
Origon	+44	994	107-4	60.8	96'9	7918	86'7	+1%	1'00	0188	+0.17	9-8	1'6	+07	1.00	1.83	68-78	58'80
South-West Box	gal	104	11175	67'2	9816	77'1	87-8	+2'3	1'06	178	-0.10	8.0	1.8	+0'1	1'81	5'07	86194	10:30
Best Bengal	160	(104	100%	65'7	9819	78'6	8178	-02	2'88	2.41	+9196	4'0	810	+10	3156	5'25	87'38	87:87
North Bengal	red	70-0	1100	0513	8018	71'5	80'6	-17	2:78	1:07	+1'10	616	9:8	+17	\$100	8'67	81'64	78'51
North Bohar	404	44.0	108%	00'0	9618	78'4	841	-019	1'05	0'76	+019	1'9	17	+018	121	1'56	30'41	51199
south Menar	400	001	119"1	67"5	1018	12.6	8616	-013	0100	8148	+0'47	1'8	018	+07	0'91	0'91	45'05	40'01
Chutta Naspur	0.00		106'9"	68-80	96.70	77.00	84 10	-0.40	0.80	0166	+0*86	1%	118	+016	8180	1106	44196	511-0
Annam	000	0.00	9015	6874	82'5	6010	75'8	-21										

<sup>\*</sup> Durbhunga and Chychaem not included.

METSOBOLOGICAL OFFICE, BENGAL;

C. LITTLE,

The 20th May 1890.

Offg. Meteorological Reporter to the Goot. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 11th to 17th May 1890.

		o A.M. reduced			Tune	STATURE			1	Ттаномит	w.	bours.
Monys.	Date	Pressure at 10 corrected and recto 52° Fahr.	Daffy mean.	Marinum.	Bange.	Minimum.	Dry buils as 10	Wet bulb et 10	Vapour tension at IO a.m.	Dew point at 10 A.M.	Cumidity at 10	Rainfall pust 24 ho
1890 1890 100 112 29 120 12 12 12 12 10 12 11 11 11 11 11 11 11 11 11 11 11 11	11th 12th 13th 14th 15th 16th	Inches. 29-679 784 -881 -896 -882 -807 -760	90 · 3 89 · 6 86 · 4 83 · 5 81 · 8 79 · 8 83 · 9	99-2 98-0 92-5 92-7 92-7 90-0 94-0	17-9 17-0 12-2 17-4 21-9 20-4 20-2	81-3 81-0 80-3 74-8 70-8 69-6 73-8	98-6 98-6 90-6 82-6 84-8 77-1 87-6	83-0 80-0 81-3 77-3 76-5 74-5 79-5	987 941 943 967 802 821 900	78·3 74·0 77·5 74·9 72·6 78·8 76·0	63 53 65 78 67 80	*0.00 0.86 0.16 0.74 0.21
	The mea		•				8		000	***	1nches. 3 29*791 85:0	

The mean 10 A.M. pressure of the seven days		***	***	29.791	
The mean temperature of the seven days		•••	*40	85.0	
The extreme variation of temperature	•••	***	001	29:6	
The maximum temperature	***	* 9 8	***	99.2	
The mean 10 a.m. relative humidity of the a	even days	0.00		69	
The total fall of rain from 11th to 17th May	1890			Inches	

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLELAND,

For Meteorological Reporter to the Goet, of India.

METEOROLOGICAL OFFICE, INDIA; The 19th May 1890.

### MEMORANDUM.

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 3rd May 1890.

### BIRTHS.

The births registered during the week ending with Saturday, the 3rd May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 14·1 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is 3·7 lower than the average rate of the corresponding week of the past five years, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, vide the figures below:—

	1605.	1006.	1807.	1000.	3800.	Weekly average of five years.	1600.
Ratio of births per 1,000 of the population per	22.0	17'3	1819	1614	2018	27'8	16'4

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

				٧	Vanko a	WDING-					-	VHREA 2	ADIA-	
Town	rs.			13th April 1886,	19th April 1609.	98th April 1880.	3rd May 1890.	To	WRG.		18th April 1880.	19th April 1880.	94th April 1899.	3rd May 1890.
Incidwan Idainapore Idainapore Idughii and Chitam Seramapare Idainapare Idainapare Idainapare Ranaetat Santapare Ranaetat Santapare Ranapore Boanluing Dacoca	010	900 000 300 700 000 000 000	970 001 00 000 000 000 000	10.7 10.8 84.6 11.3 14.0 18.9 18.9 17.4 18.4 16.5 14.9	20°8 15°0 14°6 17°8 16°9 17°6 10°5 22°7 24°0 3°8 18°4 31°5 14°8 18°6	22 9 17 0 84 5 9 8 9 4 12 2 7 0 3 8 12 0 7 0 6 1 3 8 12 0 7 0 6 1 3 8 12 0	972 1274 2370 1377 074 1772 2173 2177 670 1478 2178 2178 2178	Narninganj Chittasung Comillah Inuna Gya Arrah Monullerporo Durbhanga Chupea Bhasulporu Monalay Iluraeah Poori	000 000 000 000 000 000 000 000	 000 000 100 100 000 000 000 000 000 000	13'0 10'1 10'1 10'1 12'2 20'0 10'5 17'3 10'8	61.4 5.3 11.6 7.8 15.7 16.4 13.4 21.3 21.7 25.3 24.2 21.0	34'8 11'7 30'8 6'3 81'9 10'8 10'9 21'3 22'1 18'1 19'0 36'1 18'9	90 42: 5: 13: 10: 10: 16: 16: 18: 16: 16: 18: 16: 16: 16: 16:

It will be seen that last week the highest birth-rate was returned from Comillah (42.4) and the lowest from Patna City (5.5). No births were registered during the week in Jessore town.

Drafts.

The deaths registered during the week under review correspond to an annual rate of 26.7 per 1,000 of the population. The rate of the week is 4.2 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, vide the figures below—

	1988.	1008.	1807.	3808.	1869.	Weekly average of five years.	1890.
Ratio of deaths per 1,000 of the population per annual	2017	81.4	21.2	90'8	2013	29'5	50:7

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

					1	WEEKS	BEDING	-				1	VERKO I	TDIRG-	
	Town	٥.			15th April 1890."	19th April 1800.	South Appril 1860.	and May 1890.	Towns.			12th April 1899.	19th April 1890.	20th April 1800.	2rd May 1900.
Burdwan Midnaporo Hughi and lorampora Utherpura Howrah Bali Kishname Ranaghat Josape Bampore Josape Bampore Be Durjiling Dagan	**************************************	004 005 005 005 005 005 005 005 005	006 010 647 +00 104 -00 103 103 103 103 103 103 103 103 103 1	000 000 000 000 000 000 000 000	8810 941 607 8116 9418 9418 1170 1110 817 61 59 6 741 881	2000 2011 8518 6711 2012 2111 1114 600 213 4218 3618 5618 5618	82'9 13'9 56'9 49'1 47'2 10'3 10'3 7'6 8'8 18 4 36'8 103 7	21'6 17'0 65'6 81'6 67'2 17'2 31 '7' 18'1 47'9 88'8 18'8 18'8	Navaingani Chittazeng Comillah Patua Gya Arrah Meauferpore Durithanga Chupra Wangupore Wangupore Wangupore Wangupore Wangupore	000 000 000 000 000 000 000 000 000 00	001 500 001 011 011 000 000 000 000 000	41*4 9*4 19*3 23*0 63*5 12*0 18*8 18*1 2*0 23*8 88*0 31*8 88*7	18'4 D'4 11'6 10'8 40'4 28'7 18'9 88'8 9'1 99'8 96'9 84'6 88'7	818 8111 1116 4016 8418 3318 1918 1414 2211 3414 8711 8119 6411	16'0 2'3 19'3 26'3 25'1 25'1 25'1 26'3 30'1 46'3 30'1

It will be seen that last week the highest mortality occurred in the town of Darjiling (118.6) and the lowest in Chittagong (2.3).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Chole	ra.	Small	-pox.	Feve	r.		Other oau	168.
	Ratio per mile,		Ratio per melle.			tio per		Ratio per maile.
Hughli and Chi Patna City Monghyr Chupra Dacca Durbhanga Bhagulporo	13:3 13:3 8:1 5:0 4:8 3:9	Ranaghat Pooree Chupra Howrah	17.9 6.3 5.0 2.9	Darjiling Bhagulpore Purneah Hugli and surah. Arrah Bali	Chin-	08·7 24·4 24·2 23·0 21·5 31·1	10	

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 4.9 from cholers, against 5.6 per 1,000 in the preceding week; 1.2 from small-pox, against .7; 12.4 from fever, against 15.2; 1.9 from bowel-complaints, against 1.7; .4 from injury, against the same ratio; and 5.9 from other causes, against 5.6 in the preceding week.

The mortality of last week according to Sez, Class and Age was as follows:-

According to Sex.		According	to Ciass.		According to A	ge.	
	Ratio per mille.			latio per millo.		1	Batto per mille.
Males Remales Remales Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population	31.3	Christians Hindus Mahomedans	990 990	22·4 26·7 27·2	Under 1 year 1 and under 5 years 5 10 10 15 16 90 20 80 30 40 40 60 60 years and upwards	**** **** **** **** **** **** ****	165 9 31 3 12 7 8 1 23 8 15 8 22 8 29 0 33 6 64 6

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 19th May 1890.

Sanitary Commissioner for Bengal.

PHOTOS LCTS.				-	•		-	-	-	-			-			-												
		POP	POPETATION.				STEET STEET									-	M	CORPALITY		ACCORDING	DING	101						
																	Disease						-ndod	-		*	Sox.	
-	NAMES OF				Nouse	-60		RATIO PER 1,000 OF POPULATION PER ASSUM.	1,000 H	10 pp 64,413		Q	DEATER	-Mode			RATIO	10 288	3	ARECE.	Popularie	22. 723	to 000, f	1	DEATER.	POPU PERA	EATO PER 1,000 OF POPULATION PER ANNUM	entinite s
	136	Majos.	Vorgation,	'[খাব্যু,	Make.	Total.	Malos.	Pomeioe.	Lotel	Ratio of male births.	Сројеш-	.mod-linms	Perets, Bowel-eompleinte.	.Talai	Other diseases.	-Section I) ),	Cholena	.soq-Uam8	Povora.	Bowel-complaints.	- Lanjul	Orber discesses.	Top edizeb to otani	Vious want.	Vemales.	.tesla H	Pemalds.	dente to ottable of graves of graves of graves of the following the foll
Bardwas Bard	Bardwin	19,653	10,617	24,080		80	9.4	9.9	2	100	:	:	-	•	-	2	ŧ	:	10.7	٤	10	-	77.0	=	-	83	13.0	22
: 635	Midnapore	18,9977	16,683	23,860	•	*	8.9	20	787	3.	1	62	69	:	•	22	!	5	\$	5	*	20	20 13	0.81	10	1874	15.6	118
Beşbil Ruch	Rughli snd Chinan-	18,989	16,859	31,007	•	40	N P	18.1 18.1	0.00	73	90	g=0			•	\$	8	1.6	0.23	\$	200	8.6	20 00 00	<b>33</b>	13	8118	\$3.0	2
Bers upore	Service Doro		12,937	36,486	•	10	-	6.0	28-7	23	61	est	m4	01		2	90	9	9	9	2	7.0	3 7 7 8	10	9	1	Z	2
-	Herpara	-	3,464	8,510	1	_			7	No male   birth.	:	9	80		45		:	1	97 Si	1	:	0.0	P	93 1				<b>1</b>
Eversh Bali		2 100	8 670	14 416	0 (6	3 -	9 17 6	9 60 0 60	17.4	807	01 (1	10		:	II) ex	- 8	1.0	2	2 5		1	2 4	2 2	9 10	0 60	9 99		2 2
C King	Tar.		14.214	27 69.7	20	10	13-9	- A	28.7	9			Į~	-	-	60		: !	=	2			18.1	90	p=0	27.4	10	760
Hodden   Ram	Rangins	_	0,435	6,003	-	:	0.9	1	0.0	Coformale	:	-	89	_	-	•	:	17.0	17.0	:	0.0	0.0	6.09		60	64.5	認	100
Maga	dantipora	18,709	15,979	20,09	62	4	6	9 10	8.97	birta.	:	:	200	-		10	:	*	65	1.7	0 0	1.1	40 60 60	9	69	2	9	1
Joseph fersore	e e	4,850	3,485	8,495		1		* * * * * * * * * * * * * * * * * * * *	;	9 8 1	:	1		-		*	1	:	₩. (E. p. p. p. p. p. p. p. p. p. p. p. p. p.	1	•	0.1.0	84.6 18	9.81	01	61 61	7.53	E
Rafehatigo Sam	Rampers Beauleah	H 10,765	939'6	19,791	89	10	9 70	13.1	0.16	8	-	-	+	1	200	-	9.6	:	10.3	2	-	5.3 F	FB-6 36'8	60	-	9	40 40	200
Darilling Darill	Darfilling	4,579	2,430	7.618		100		16.8	8.97	No malo	•	1 0 0	3.6	:	04	92	:	:	1001	:	pre :	0.0	18-6 100.2	1	-	186.9	106'6	111
Dagos {			87,879	80,161	0	•	10 31	9.8	9.0	birth.	Įm.	get		9	0.	2	8,0	90	99	<u> </u>	:	8.0	17-6 26-3	3 13	2	18.0	19.8	=
	Naraingas)	7,606	4,986	18,661	01	63	60 60 80	3 19.0	200	8	Ī	:		PRI .	611	4	:	į	4-1	Ę,	1	9-3 26	\$p	62 60	ged .	8.05	10.0	15.0
Chittagons Chit	Chistograg	19,940	0.780	12,130	, 2	•	:	5	7	To male	1	:	1	-	24	94	į	1	:	:		22	200	-	-	8.0	ī	No female
i	Comillah		6,383	13,506	*	<b>b</b> -	## 15.6	9.1.9	7.87	Direct.	:	3	•	•	pro.	49	3		15.4	* 0 0	-	8.8	9.11		4ª	191	19.4	
Pates Pat	Paten Chty	78,762	81,478	160,237	•	0	17 18	0.8 9	9.0	8	3	00	8	60	13	80	13.5	ê,	9	9.1	90	91	9.00 8.90	9	22	31.7	91 11	150
6ys Gyn	•	. 33,290	37,631	76,121	213	80	0.8 76	9.9	13-3	160	81	*	92	01	17	4	3.5	1	13.8	90 20 20	-	9.0	8.98 8.4	65	51	28.7	200	127
Shahahad Arrah		20,960	209'22	299"::*	10	g-	0.9 67	0.0	244	1	e=0	•	2	-	-	2.8	90	8.	93 20	99	-	74	82.I 22.8	100		10.8	30.0	2
£	Mosufferpore	28,084	10,656	42,742		40	173	8 6.7	407	90	60	81	0		81	100 mg	80	7.00	6.01	***	-		19.	9	0	20.2	25.53	2
Derbhangs Der	Derbhangs	. 58,774	32,354	960'98	=======================================	2	9.6 76	9.2	8.97	013	10	1	22		*	8	3.6		E. 80	15	6	11 1	200	#	1 2	82.9	27	181
Beres Ohn	Ohupus	18,116	94,554	61,670	£=-	Re-	26 70	0 1.0	111.	100	10	10)	00	=	- 01	2	9.0	9.4	2	0.1		10.	7.7	gen.	11	18.6	92	38
Bhagalpore Bha	Bhagulpore	29,640	87,813	57,463	13	00	0.01 10.0	1.8	fp.9	133	-	:	175	61	139	79	99		9 49	60	3.6	0.2	2	3	18	87.0	23.7	171
Monthly Mon	Monghyr	28,164	20,266	87,520	۵	07	20 6.1	1 9.7	17-9	8	6.	***	3.0	40	50	96			16.8	17	-	6	30 G	-	36	9.09	60 61	168
Pursesh Pur	Purpeah	8,468	6,583	15,016	**	+	20 20.0	8 15.6	344	150	•	1	P-	-	:	40			21	- 10		8	12.7	91	63	2	23	25
Poort Poort	in	15,547	11,537	24,734	-	10	6.0	2,0,2	9-97	8	3	60			4	27		. 6	9.96	1	2.1	98	1.50	100	-	2.08	9	126
	Total	990.096	610,598	1,061,576	181	146 28	498	20	152	8	1001	8	8	0	35	846	1 3	1 20	7.51	9.1	20	2 2	1 %	1 2	ri i	1	9.15	2

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Poort 17 20°0 1 8 1 8		Purpost	I	1	66		ī	:	\$ .	_	1.99		:	**			i	:	81	1	ī	i	2-188	1	8.3	2.2	2	1	100	1	ŧ
3 380 150 257 5773 51 00 57 77 70 50 60 1857 51.2 187 51.3 187 51.5 555		Poorl	:	:	27		1	1	1	8	:	_	1	-				-		100	•	*	171.6	200	1	1	i	2	92	E	8
	34	TOTAL	1	9	-	3	1	1	*	-	2.0	1,	1:		-			3	2	2	2	8	165'9	2778	III	T Co		16.8	10 21	2	200

OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

.

Smilary Commissione for Be

W. H. GREGG, Dip. Publ. Realth, Comb.,

# PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statements showing quantities of Goods carried during the month of February 1890.

# ORISSA CIRCLE.

### TALDUNDA CANAL SYSTEM.

LENGTH OF CANAL OPEN { TALDUNDA CANAL, 27 MILES. MACHGONG ,, 4 ,,

			TOTAL GOVERNMEN	T AND PRIVATE.		PRIV	ATE.	-1	
Number of	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Vale	P= 1	AKD.
er rafts.		Up.	Down.	Total.	Rupees,	Tons.	Rupe	is.	REMARKS.
28	1. Grain	31	222	253	9,572	253	9,5	72	
40	2. Cotton				*****	******			
***	3. Oilseeds	• • •			** ***	*****	- + = 0		
,	4. Salt 5. Piece-goods		*****	*****		*****			
***	6. Metal		00.000	0.00					
21	7. Building materials	*****	361	361 7	522 20	202	3	$\begin{bmatrix} 10 \\ 20 \end{bmatrix}$	
1	8. Miscellaneous 9. Fuel			*****	•••••				
0 rafts	10. Timber	*****	142 No.	142 No.	233	142 No.		33	
2 ,,	11. Bamboos	*****	19,400 ,,	19,400 ,,	342	19,400 ,,	8	42	
50 &		31	590 &	621 &	)1	462 &	1		
2 rafts.	12. Total	<b>{</b>	19,542 No.	19,542 No.	10,689	19,542 No.	10,4	77	
68 &	13. Total of same	1118	576 &	694 &	} 13,398 {	649 &	} 13,2	00	
o rults.	month last year.	1	16,498 No.	16,498 No.	10,000	16,498 No.	} 10,2	30	
		Up.	Down.	Total				Ra.	
	number of boats ply- g cargo No.	9	41	50	Total tolla	ge of month			
5. Total	number of boats ying passenger No.	10	5	15		+ 26 + 261		310	0
	THE IMPOSE	39	17	56					
	al empty boats ,,	UJ		00	Total toll	age of sar		70.11	
	registered tonnage, rgo, private Tons	63	714	777	month las	n year		70 1	l.
64. Ditt			004	004			1		
mo 7. Total	ent Tons registered tonnage,	****	264	264					
r.	ssenger Tons	270	45	315	M	emorandum of	Tollag	e.	
74. Ditt	to empty ,,	352	223	575					
	mileage	9,857	21,268	31,125				D.	
	nated value of cargo Re.	3,462	6,652	10,114	1. Balance	not recover	ed	Rs. A	10 1
0. Num	ber of passengers	698	97	795	on t	he 1st of t	he	0.	
l. Rafts	, bamboos No.	****	19,400	19,400	mon	th .	••	2 10	)
2. Do.,	bullahs "	* * * * * *	142	142	2. Tollage	per month	3	10 (	)
	nated value of rafts Rs.	******	575	575					
R. LISTILL	ge on boats ,,	78-9-0	198-8-0	277-1-0					-
		,		100	3.	Total .	3	12 10	
4. Tolla	ounded tollage on								
4. Tolla	0		*****			t oredited	in		
4. Tollar			31-5-0	31-5-0	4. Amoun	t oreunted			
4. Tollago 5. Comp book. Tolla	ge on rafts ,, urrage of a bumboo			31-5-0	4. Amoun	coounts of the	he	03 0	
4. Tollado. Comp book. Tollado. Dem	ge on rufts ,, urrage of a bumboo it Rs.	00000	31-5-0	1-10-0	the a	coounts of the	he	03 0	
4. Tollado. Comp book. Tollado	ge on rafts ,, urrage of a bumboo	00000	31-5-0		the a	coounts of the	3	03 0	
4. Tollar bo. Comp bo. Tolla 61. Dem rat 7. Total tor 8. Total	ge on rafts ,, urrage of a bumboo it	*****	31-5-0	1-10-0	the a mont	coounts of the	he 3	9 10	_

# KENDRAPARA CANAL SYSTEM. LENGTH OF DANAL OPEN, 75 MILES.

			TOTAL GOVERNM	est and Private.		Par	VATS.	
Humber of heats or rafts.	DESCRIPTION.		Quantity-Tons.		Value,	Quantity.	Value.	30.00
		Up.	Down.	Total.	Rapees.	Tons.	Rupess.	RESEABLE.
257 2 23 18 2 1 104	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials	1 2 31 95 3	2,497 1 452 37  994 206	4,110 2 454 68 95 3 1,015	2,16,490 500 73,740 5,800 42,000 700 13,590	4,110 2 454 68 95 3 397 590	2,16,490 500 73,740 5,800 42,000 700 11,260	
138 7 44 rafts 36 ,,	8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	41	18,744 o. ft. 25,112 ,,	18,744 c. ft. 25,112 "	1,55,370 120 12,490 3,120	18,744 c. ft. 25,112 ,,	1,55,370 120 12,490 3,120	
552 & 80 rafts.	12. Total	2,191	4,187 & 43,856 o. ft.	6,378 & 43,856 c. ft.	5,23,920 {	5,760 & 43,856 o.ft.	\$ 5,21,590	
538 & 62 raits.	13. Total of same month last year.	} 1,660	2,077 & 1 105,055 No. }	3,737 & } 105,055 No. }	3,59,640 {	3,280 & 105,055 No.	}3,57,020	
		Up.	Down.	Total.	ĺ	1		1
	number of boats ply- cargo No.	221	331	552	Total tollar	ge of month	1	A 1
	number of boats ply- passenger No.	57	50	107	24 + 25		7,917	2
	empty boats ,,	294	223	517		ě.		47
16. Total	registered tonnage, go, private Tons	2,387	6,575	8,962	Total tolls month las		me 5,775	1
164. Ditto	ditto, Government ,,	27	1,373	1,400			1	
	registered tonnage, senger Tons	2,200	1,471	3,671	М	emorandum o	Tollage.	
17j. Ditto	ditto empty boats ,,	3,027	793	8,820			Ra,	A. 3
18. Ton-m	ileage	353,407	411,479	764,886	1. Balance	not recover		
19. Estima	ited value of cargo Rs.	1,87,870	3,20,440	5,08,310	on the month		7,031	4 2
20. Numbe	er of passengers	3,554	3,893	7,447				
21. Rafts,	timber C. ft.	****	18,744	18,744	2. Tollage p	or month	7,917	2 4
22. Do., 1	bamboos ,,		25,112	25,112			1	
23. Estima	sted value of rafts Rs.	****	15,610	15,610				
24. Tollage	on boats ,,	2,657-4-11	4,633-3-6	7,290-8-5	3.	Total	14,948	6 6
25. Compos boats		0.00000	****	*****	4. Amount	oredited	in	,
26. Tollage	on rafts "	*****	626-9-11	826-9-11	month		8,392	10 11
27. Total tou-	tollage on bosts per lis.	******	* ******	0-0-18	6 D 1	1		
28. Total (	tollage on rais per oubic feet Rs.	•••••	*****	1-6-10	of the	due at the e	nd 6,555	11 7

# HIGH LEVEL CANAL, BANGE I. LENGTH OF CANAL OPEN, 63 MILES.

		TOTAL GOVERNMEN	T AND PRIVATE.		Paiva		
abor of Description.		Quantity-Tons.		Value.	Quantity.	Value.	ROMA BES.
rafta.	Up.	Down.	Total.	Rupees.	Tons.	Rupees.	Rem
176 1. Grain 4 2. Cotton 18 3. Oilseeds 57 4. Salt 5. Pieco-goods 1 6. Metal 24 7. Building mater 101 8. Miscollaneous 19 9. Fuel rafts 10. Timber	206 147 39,348 c. ft.	2 3 136 4 74	528 5 52 136 3 142 280 147 39,348 c. ft.	32,970 1,390 4,360 11,430 420 1,040 11,530 400 10,500	528 5 52 136 3 142 280 129 39,348 c. ft	33,970 1,300 4,860 11,430 1,040 11,530 360 10,500	
11. Bamboos	1,074 &	5,150 c. ft.	1,293 &	480 75,430	5,550 ,, {1,275 & 44,895e ft	} 75,390	-
mits.	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5,150 c. ft.	44,898 c. ft.		(44,030810	, ,	-
000	357 & 31,828 No.	228 & } 5,400 No. }	1,085 & 7,228 No.	53,880	967 & 7,228 No.	} 53,730	
	Up.	Down.	Total.	Total tolla	ge of mont	Ra.	
ing cargo	ly- No. 310	90	400	24 + 25	+ 26	1,210	15
Tohur men	y- lo. 1	1	2	Zillo y Cuz	•••	/94	10
	., 30	294	324	Ж	emorandum of	Tollage.	
Total registered tonna cargo, private To	ge, ons 2,207	520	2,727				-
Ditto ditto, Government	1, 41	,	41			Re	. A.
Total registered tonna passenger To		12	20	1. Balance	not recover	red	
. Ditto empty boats	. 84	1,383	1,467	mont		257	6
Ton-mileage	120,736	25,007	1,45,743				
Estimated value of cargo l	Rs. 45,940	18,510	64,450	2. Tollage	per month	1,210	4
Number of passengers	5	10	15				
Rafts, bamboos C.	ft. 400	5,150	5,550				
Do., timber	, 39,348	*****	39,348	3.	Total	1,467	10 1
Estimated value of rafts I	Rs. 10,550	430	10,980				
Tollage on boats	536-2-0	302-11-0	838-13-0	4. Amount	oredited in t	he th 1.271	10
	on		10000	and our de	Us mit Mittle	2,000	4 4
Tollage on rafts ,	352-2-3	19-5-0	371-7-3				
	ls.		0-0-1-96		due at the en	nd   196	0 6
61	er ls.	*****	0-13-3	•			

# HIGH LEVEL CANAL, RANGE II. LENGTH OF CANAL OPEN, 121 MILES.

			TOTAL GOVERNME	BY AND PRIVATE.		Piti	VATE.		
Number of boats or suita.	Description.		Quantity-Tons.		Value.	Quantity.	Value.		
		Up.	Down.	Total.	Enpeas.	Tons.	Rupees.		
78 1 10 6 35	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal	193	22 27 37	204 1 22 27 37	10,692 160 1,680 3,640 9,800	204 1 22 27 87	10,699 160 1,680 3,640 9,800		
2 17 43 16 rafts 78 ,,	7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 347 No. 11. Bamboos	71 172}	2 63 302 2,082 o. ft. 43,375 No.	94 2354 302 2,082 o. ft. 43,375 No.	814 1,041	235} 17 2,082 o. ft. 43,375 No.	2,069 51 1,041 1,298		
192 & 94 rafts.	12. Total	{ 374	464 2,082 o. ft. 43,375 No.	838 2,082 c ft. 43,375 No.	31,251	543\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	30,428		
244 & 2 rafts.	13. Total of same month last year.	} 396}	769 & 2,466 c. ft. 9,900 No	1,1654 2,466 c. ft. 9,900 No.	} 40,051 {	565 & 2,466 c. ft. 9,900 No.	37,773		
•		Up.	Down,	Total.					
	number of boats ply- cargo No.	73	119	192	Total tollar	otal tollage of month— 24 + 25 + 26			
ing	number of boats ply- passenger No.	1 108	1 84	2	Total tolla	me			
5. Total	registered tonnage,	733	354	192	month last	year	524	5 18	
	Govt. ditto ,,	15	574	1,057	ж	emorandum (	of Tollage.		
	registered tonnage, enger Tons	2	4	6			ē.	_	
1. Ditto	empty ditto ,,	428	231	659				. A	
	leage	10,910	14,208	25,118		not recover		) {	
. Estima	ted value of cargo Ra.	10,186	18,725	28,911					
. Numbe . Rafts, 1	r of passengers	1951	271 43,375	43,375	2. Tollage p	per month	338	5 14	
			2,082	}					
Do., b	ted value of rafts Re.		2,340	2,082	3.	Total	338	9	
	on boate	113-15-9	183-14-0	297-13-9					
. Compos boat	unded tollage on its.	*****	****		4. Amount the a month	coounts of	in the	) 3	
. Tollage		* * * , . ,	38-0-6	38-0-6					
ton-	tollage on boats per Re.	•••••		0-0-2:27		due at the e		5 (	
100	oubic feet Re.	•••••		0-13-9	or un	2 month	***		

# HIGH LEVEL CANAL, BANGE III.

LENGTH OF CANAL OPEN, 19 MILES.

			TOTAL GOVERNMENT			PRIVAT		
fumber of house or raits.	DESCRIPTION.		Quantity-Tons		Value.	Quantity.	Value.	4
		Up.	Down.	Total.	Rupest,	Tons.	Eupees.	REMARKS
14	I. Grain	160		160	8,966	160	8,966	
	2. Cotton						*****	
	3, Oilsoeds	***	* * . * *			•••	*****	
	5. Piece-goods		401739		*****		*****	
	6. Metal	*****		4	***	***	*****	
2	7. Building materials	***	9	9	137		*****	
3	8. Miscellaneous		221	22 }		221	565	
o Eta	9. Fuel		168 c. ft.	168 e ft.	65	168 o.ft.	65	
2 rafts	11. Bamboos	• • • • • •	550 No.	550 No.	25	550 No.	25	
59 &		100	311	1914	9,758	1824	0.601	
5 rafts.	12. Total	160	168 c. ft. 550 No.	168 c. ft. 550 No.	5 8,100	165 c.ft. 550 No.	9,621	
126 & safta.	13. Total of same	1504	4994 & 546 e. ft.	650 & 546 c. ft.	16,400	1954 & 546 c.ft.	16,027	
	month last year.		Down.	Total.	1	040 6.12.		_
		Up.	Down.	TOTAL.			Ps.	A. 1
Total	number of boats plying	1			Total tollag	ge of month-		
oar	go No.	54	5	50	24 + 25	+ 26	00 1	2
	number of boats ply- passenger No.		1	1	Translation			
-	empty ditto "	7	64	71	last year	of same mont		9
. Total	registered tonnage, and boat Tons	320	45	365				
1. Ditto	Govt. boat		19	18	Me	morandum of	Tollage.	
Total	registered tonnage, senger Tons		1	1				
		*8.000					Rs.	A.
1 Ditto	empty ditto	27	149	176	1. Balance	not recovered		
. Ton-m	nilaage	2,937	2,244	5,181		e 1st of the	9	
Estim	ated value of cargo Ra.	8.966	702	9,668	щоны		******	
Numb	er of passengers	292	1681	4601	2. Tollage p	er month	80 12	9
Rafts	, bamboos No.		550	550				-
. Do.,	bullahs C. ft.	.00.00	168	168	3.	Total	80 12	9
Estim	sted value of rafts Rs.		90	90				
Tollag	re on boats	55-10-0	23-10-6	79-4-6		counts of the		
Compo	ounded tollage on Rs.		******		month	• • •	80 12	9
Tollag	re on rafts ,,		1-8-3	1-8-3				
Total ton	tollage on boats per mile Rs.		* B @ * * *	0-0-2-65	g Halaman d	up at the and		
Total	tollage on rafts per qubic feet Ra.			0.11-2	of the	mouth	44.004	

# JAJEPORE CANAL

# LENGTH OF CANAL OPEN, 64 MILES.

			TOTAL GOVERNMEN	INT AND PRIVATE.		Parv	ATE.	
Humber of bonts or rate.	Discalprion.		Quantity-Tone.		Value.	Quantity.	Value.	1
		Up.	Down.	Total.	Rupsen,	Toos.	Rupees.	
7 8 1 7 2 1 15 Rafts 10 ,,	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber, 483 No. 11. Bamboos No.	31	54 134 24 8 8 64 2,898 c. ft. 4,100 No.	134 34 24 8 64 2,898 o ft 4,100 No	3,820 288 1,400 1,267	54 134 31 24 24  8 61 2,898 o. ft. 4.100 No.	269 3,820 288 1.400 1,267 11 887 123	
21 1, 25 Rafts.	12. Total	{ 31	36 2,8+5 o. ft. 4,100 No.	391 2,598 e. ft 4,100 Nc/	7,565	891 & 2,898 o.ft. 4,100 No.	7,565	
15 16 Rafts.	13. Total of same month last year.	8	49 1,068 c ft. 5,800 No.	52 t. 1,068 cd. 5,800 No	4,977	52 & 1,068 o ft. 5.800 No.	4,977	
		Up.	Down.	Total.				
ing	number of boats ply- cargo No.	1	20	21	Total tollag	ge of month-		
	number of boats ply- passenger No.		2	2	24 + 25	+ 26	18 1	13
	empty ditto ,.	24	. 4	28	Total tolla	ge of san		7 10
16. Total	registered tonnage, and boat Tons	7	72	79				
164. Ditto	Govt. boat "	••••	** ***	0.0 P = .				
	registered tonnage, senger Tons		8	8	<i>M</i> -	morandum of	Tullage.	
174. Ditto	empty ditto .,	39	8	47			Rs.	A. P.
18. Ton-mil	leage	276	528	804		not recovere		E41
19. Estimat	ed value of cargo Rs	288	6,767	7,055	month			
20. Number	r of passengers	404	*** 40	4 <b>0</b> 0	2. Tollage p	er month .	. 18 1	3 6
21. Rafts,	bamboos No.		4,100	4,100	0. 8		20.8	
22. Do., E	oullahs C. ft	+ a + 6 b s	2,898	2,898	8.	Total	18 1	3 5
23 Estimat	ed value of rafts Rs.	****	510	510		a over	18 1	0 0
24. Tollage	on boats ,,	2-13-6	7-8-2	10-5-8				
25. Compour boats	nded tollage on	0 0 0 - 0 0	000.00			counts of th		
26. Tollage	on rafts ,,	*****	8-7-9	8-7-9	month	• •	18 1	8 5
27. Total to	illage on boats per lile Rs.	****	****	0·U-2·02	6 Palana		3	
	ollage on rafts per ubic feet Re	******		0-7-0		mouth		

# SOUTH-WESTERN CIRCLE.

MIDNAPORE CANAL.

LENGTH OF CANAL OPEN, 53 MILES.

			TOTAL GOVERNM	BUT AND PRIVATE.		Pas	VATE.	
Number of boats or rafts.	Description.		Quantity-Toni	۸.	Value.	Questity.	Value.	
		Up.	Down.	Total.	Rupose,	Tons.	Rupees.	1
977 1 21 84 6 34 73 264 36 68 rafts	1. Grain 2. Cotton 3. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	2 239	316 2 72 697 59 86 2 541 500 683 a. ft.	5,883 4 311 697 59 191 687 1,129 589 9,313 o. f. 1,674 "	2,97,607 5,140 27,354 74,622 1,64,100 1,64,801 2,229 4,40,150 4,274 6,334 101	5,883 4 311 697 59 191 476 1,129 6×9 9,3130 ft.	2,97,607 5,140 27,854 74,622 1 64,100 1,64,801 1,579 4,40,150 4,274 6,334 101	8
1,496 & 82 rafts.	12. Total	7,275 & 10,304 c. ft.	2,275 & 683 c. ft.	9,550 & 10,987 c. f	1 1 1 86 7101	9.339 & 10,987a.ft.	11,86,062	
,839 & 5 rafts.	18. Total of same month last year.	7,860 & 19,951 c. ft.	1.623 & 235 o. ft	9,483 & 20,186 o. ft.	1 5 7 03 6500	9,483 & 20,186 o.ft.	7,03,650	
		Up,	Down.	Total,				
ing 5. Total ing	number of boats ply- number of boats ply- passenger No.	1,142 446 522	354 616 853	1,496 1,062 1,375	24 + 20 + 2	ge of san	11,809 1	2
ourg	registered tonnage, registered tonnage,	16,598	5,177	21,775	Mem	orandum of	Tullage.	
	enger Tous	3,609	3,479	7,088	-		1	-
4. Ditto	empty "	2,312	4,178	6,490			Rs. A	P.
	0.0	495,347	247,357	742,704	1. Balance n	1st of the		
. Ton-m	ated value of cargo Rs.	7,49,820	4,30,457	11.80,277	month			4.
Ton-n		7,49,820 5,007	4,30,457 3,433	11,80,277 8,440	month 2. Tollage per			
. Ton-n . Estim	ated value of cargo Rs.				2. Tollage per			3
. Ton-n . Estim	ated value of cargo Rs. er of passengers	5,007	3,433	8,440	2. Tollage per	month	11,809 12	
. Ton-m . Estim . Numb . Rafts,	ated value of cargo Rs. er of passengers bamboos C. ft.	5,007 1,674	3,433	8,440 1,674	2. Tollage per	month		
Ton-no. Estima. Numb. Rafta, Do., Estima	ated value of cargo Rs. er of passengers bamboos C. ft. bullahs ,,	5,007 1,674 8,630	3,433	8,440 1,674 9,313	2. Tollage per	month	11,809 12	
3. Ton-m 3. Estima 4. Numb 5. Rafta, 6. Do., 7. Estima 6. Tollage 7. Compo boata	bamboos C. ft. bullahs ,, ated value of rafts Rs e on boats ,, unded tollage on Rs	5,007 1,674 8,630 4,932 7,840-8-3	3,433 683 1,503 3,759-9-3	8,440 1,674 9,313 6,435 11,600-1-6	2. Tollage per 3. 4. Amount treasury	month	11,809 12	
Estima Rafta, Do., Estima Tollage	ated value of cargo Rs. er of passengers bamboos C. ft. bullahs ,, ated value of rafts Rs. e on boats ,, unded tollage on Rs. e on rafts ,,	5,007 1,674 8,630 4,932 7,840-8-3	3,433 683 1,503 3,769-9-3	8,440 1,674 9,313 6,435 11,600-1-6	2. Tollage per 3. 4. Amount	month  Total	11,809 12	
Estima  Rafta,  Do.,  Estima  Tollage	bamboos C. ft. bullahs ,, ated value of rafts Ra e on boats ,, unded tollage on Re tollage on boats per	5,007 1,674 8,630 4,932 7,840-8-3	3,433 683 1,503 3,759-9-3	8,440 1,674 9,313 6,435 11,600-1-6	2. Tollage per 3. 4. Amount treasury	Total	11,809 12	7

# HIDGELLKE TIPAL CANAL. LENGTH, OF CANAL OPEN, 29 MILES.

	ATB.	Parva		T UND PRIVATE.	TOTAL GOVERNMEN	· · · · · · · · · · · · · · · · · · ·	+	
	Value,	Quantity.	Value.		Quantity-lone.		Duscurrios.	Number of
	Aupons,	Tons.	Rupres.	Total.	Bown.	Lp.		
	9,501	209	9,501	209	9	200	1. Grain	245
			*****				2. Cotton	
1	900	3	900				3. Oilseeds	1
	₹20		320	3	3	***	5. Piece-goods	* 1
	*****	. 000	** ***		** ***		6. Metal	
	26	15	26	15	15	******	7. Building materials.	8
	708	10	708	10	9	1	8. Miscelaneous	246
1	30	4	30	4	4		9. Fuel	1
18.3	134	127 o ft.	134	127 c. f.	127 c. ft.		10. Timber	l raft
	19	150 ,,	19	150 "	1.0 ,	50	II. Dampoos	4 rafts
	} 10,738	24  & 277 e. ft.	10,788 {	241 &   277 o. ft.	40 & 227 c. ft.	201	12. Potal	501 & rafts.
	1,65,348	3,255 & 2,063 e. ft	1,68,410	3.276 & 2,063 c. ft. }	599 & 2,063 e. ft	2,677	13. Total of same (month last year.	,073 & s rafts.
				Total,	Down.	Up.		1
A.	Re.		Total tollag	,		(1.6 m.)	l number of boats ply-	
0	165		24 + 25	501	236	265	eargo No.	
8	3,041	age of sa	Total tollemonth last	13	8	5	d number of boats ply- g passenger No.	ing
ATA:	c m. B.	monaudu od	Man	669	238	431	al registered tonnage, rgo Tons	
	Thuage.	morandum oʻ	200.0	10	6	4	d registered tournge, seenger Tons	
<b>A</b> .	Ra			9,841	3,259	6,082	-mileage	
				10,585	1.231	9,351	mated value of cargo Rs.	
		not recove		54	30	24	nber of passengers	
15	695		mont	150	100	50	ts, bamboos C. ft.	
0	165	per month	2. Tollage	127	127		, bullahs ,,	
				153	147	6	mated value of rafts Rs.	
15	860	otal	3. To	162-2-6	56-6-9	105-11-9	age on boats ,,	. Toll
							spounded tollage on	i. Con
	into		4. Amour	****	** * * * * * *	** ***	Re.	
9	the 164	ary during	mont	2-14-0	2-12-0	0-2-0	lage on rafts ,.	
			•	0-0-3-3	A D · 000	****	al tollage on boats per la.	7. Tota
	the onth 696	e due at of the mo	5. Balano	1-0-7	*****	*****	tollage on rafts per la.	8. Total

# SONE CIROLA. PATNA CANAL SYSTEM.

LENGTH	OF	CANAL	OPEN,	861	MILES.
--------	----	-------	-------	-----	--------

to surfaces			TOTAL GOVERNME			PRIVA		
trents of raits.	Description.		Quantity-Tons.	1	Value.	Quantity.	Value.	REMARKS
		Up.	Down.	Total.	Rupoca,	Tons.	Rupees.	Res
16	1. Grain	10	129	139	9,159	139	9,159	
***	2. Cotton	1	16	17	41.200	19	(1.100)	1
1	3. Oilseeds	35		17 35	2,300	17 35	2,300	
10	4. Salt	106	* * * * * * *	106	6,136 22,430	106	5,136 22,430	
16	5. Piece-goods	7	** **	7	1.920	7	1,920	
24	7. Building materials	28	166	194	1,563	142	1,113	
97	8. Miscellaneous	181	473	654	41,434	418	40,180	i
	9. Fuel By rafts	861400	219	219	668	219	668	
	(Darbons	17		17	275	17	275	
4	10. Timber { py cont   rafts	*****	319	319	3,714	319	3,714	
	( By hout	104		104	2,300	104	2,300	
11	11. Bamboos 7, rafts	100101	945	945	13,086	945	13,086	
170	10 70-4-1	400	0.04*	0.700				
	12. Total	489	2,267	2,766	1,03,985	2,468	1,02,281	
135	13. Total of same month last year	465	1,804	2,269	1,12,767	1,929	1,11,532	
	1	Up.	Down.	Total.				Judice
							Rs.	A.
"ing	number of boats ply- cargo No. number of boats ply-	60	101	170	Total tollar	ge of month + 26	1,820	2
	passenger No.	4	4	8			1	
. Ditto	empty boats ,,	60	39	99	Total toll	age of sar	ne	
	registered tonnage,				month last		1,032	9
oarg	o Tons	887	1,344	2,231		, ,	2,000	
Total	registered tonnage,					<del></del>		
	enger Tous	164.	164	328	Ma	morandum of	Tallan	
. Ditto	empty boats ,,	317	112	429	THE CO	moranaum oj	Lumye.	
Ton-m	nileage	52,706	1,53,213	2,05,919			Rs.	A.
Estim	ated value of cargo Rs.	39,863	46,654	86,517		not recover		
Numb	er of passengers	3461	287	6331	on the month	e 1st of t	415	3
Rafts,	bamboos C. ft.	*****	141,737	141,737	2. Tollage	per month .	1,820	2
Do., l	bullahs ,,	460.00	40,346	40,346				
Estima	ated value of rafts Rs.		17,468	17,468	3.	Total .	2,235	5
Tollag	e on boats ,,	375-13-6	556-7-9	932-5-3			2,433	
Compo		75-0-0	75-0-0	150-0-0	4. Amount	oredited i	h	
Tollage	ou rafts ,,	J 6 4	737-13-0	737-13-0		counts of th	0	H 6
	tollage on boats par mile Rs.	*****	11/104	0-0-1				-
Total .	tollage on rafts per cubic feet Rs.			0-6-5	# TO 1	due at the end		

# ARRAH CANAL SYSTEM. LENGTH OF CANAL OPEN, 65 MILES.

		7	OTAL GOVERNMENT	AND PRIVATE.		Paiv	ITE.		
Number of	Dimoniprios.		Quantity-Tons.		Value.	Quantity.	Vı	due.	
or raits.		Up.	Down.	Total.	Rupees.	Tone.	Ra	pees,	
10	1. Grain	2	90	92	6,104	92		6,104	
	2. Cetton	*****	*****		101004	******			
4	3. Oilseeds	9 0 0 0 0	79	79	8,800	79		8,800	
18	4. Salt	264		264	32,380	264		2,380	
1	5. Piece-goods	19		19	18,450	19	1	8.45(	
	6. Metal	1	******	1	304	1		3(14	
15	7. Building materials	******	146	146	481	78 704	0	81	
79	8. Misoellaneous	101	752 64	813 165	84,705 1,953	115		4,549 1,439	
12	9. Fuel		11	11	400	110		1,20	
1	10. Timber	0.00 0 0 0	210	210	1,559	210	••	1,55	
T) (1	Bullahe		50	50	444	50		44	
Rafts	11. Bamboos		314	314	826	314		82	
	( rirewood	*****	0.2	011	(100				
140	12. Total	448	1,716	2,164	1.56,406	1,926	1,5	5,15	
105	13. Total of same month last year.	198	1,900	2,098	79,335	1,930	7	8,28	
		Up.	Down,	Total.				1	
in	number of boats ply- geargo No. number of boats ply-	35	105	140	Total tolla 24 + 25	ge of month + 26		1,31	
ing	passenger No.	. 1	3	4	Total toll	lage of ea	me	88	
bo	ats No. registered tonnage,	86	5	91		, , ,			
CB.	rgo Tons	702	1,833	2,535			C 00	,,	
7. Total	ssenger Tons	62	58	120	A	lemorandum o	7 200	uage.	
	ipty Tous	302	18	320					
3. Ton-1	mileage	47,908	85,862	133,770	1. Balance	not recove	red		
. Estin	nated value of cargo Rs.	66,613	86,964	1,53,577		e lst of		1:	
. Numl	per of passengers	850	747	1,597					
. Rafta	, bamboos C.ft.	••••	7,555	7,555	2. Tollage	per month		1,8	
. Do.,	bullahs ,,	******	15,800	15,800					
24. Do.,	firewood "	00000	23,560	23,560					
3. Estin	nated value of rafts Rs.	*****	2,529	2,829	3.	Total	•••	1,4	
. Tolla	ge on boats "	248-15-9	625-3-0	874-2-9	4. Amoun	t oredited	in		
	oounded tollage on ks.	182-14-8	182-14-6	365-12-9		accounts of	the	1,34	
6. Tolla	ge on rafts ,,	*****	77-2-9	77-2-9					
7. Tota	l tollage on boats per								
	n-mile Rs.	*****	******	0-0-1-78	5. Balance	e due at the	end		
60							-		
8. Tota	l tollage on rafts per lo gubic feet Rs.	•••••	*****	0-2-7	of the	month		1	

BUXAR CANAL SYSTEM.

# LENGTE OF CANAL OPEN, 67 MILES.

Mban . 6			TOTAL GOVERNMEN	IT AND PRIVATE.		Parv	ATH.	
Number of the contracts	DESCRIPTION.		Quantity-Tous.		Value.	Quantity.	Value.	
		Up.	Down.	Total.	Ropess.	Tons.	Rupees.	REMARKS
5		*****	55	56	8,124	55	3,124	
•••	9 Oileanda	0.0000	00000				4	
4	4 Rala	1	75	75 1	8,800	75	8,800	
• 00	# Diseased				80	1	80	
			*****		******	*****		
8 46	7. Building materia	16 12	100 531	116 543	1,641	75	766	
30	S. Fuel				41,165	543	41,165	
afts {			256	256	1.884	258	1,884	1
TI(D	11. Bamboos	.40.00	184	184	2,341	184	2,341	
63	12. Total	29	1,201	1,230	69,035	1,189	58,160	
16	13. Total of sam		961	992	28,621	992	28,621	-
	month last year	r.						
		Up.	Down.	Total.				
ing	number of boats ply	o. 3	60	63				٨.
	number of boats ply		8	16	Total tollag	ge of month		
. Ditto	passenger No empty boats	87	7	74	24 + 25	+ 26	734	15
. Total	registered tonnage		1,435	1,470	Total tolls	age of san		
• pas	registered tonnng senger Tor		216	432	month las	i year	503	12
. Ditto	empty ,,	251	27	278				
. Ton-m	nileage .	8,552	31,908	40,460	. M	lemorandum o	f Tollage.	
Estimo	ated value of cargo R	s. 2,373	52,437	54,810			Rs.	Δ.
Numb	er of passengers .	502	443	945	1. Balance	not recover	ed	
Rafts,	bamboos C. f	t	27,617	27,617	month	e lat of the		14
. Do.,	bullahe		19,243	19,243	2. Tollage	nom mr /1		
Estim	ated value of rafts R	s	4,225	4,225	2. Tollage	per month	734	lã
Tollag	on boats	56-10-0	371-2-0	427-12-0	3.	Total .	771	14
Compo	ounded tollage of		72-14-11	145-13-9			111	* 2
Tollag	e on raits		161-5-9	161-5-9	4. Amount the so month	counts of th	n ne 764	4-
	tollage on boats pe- mile Re		*****	0-0-3		•	702	
	tollage ou rafts per cubic feet Rs			0-5-6	5. Balance d		60	9

# ABSTRACT FOR THE MONTH OF FEBRUARY 1890 AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

	Ta.	APPIC.	1880-90,				TE	AVFIC,	1889-80,			
CABAL.	During the mont	lu.	To end of th	M9 000	eith.	During the	mon	th.	To sud of the	mon	th.	RHMAREL
Orissa Circle.	Rs. A.	P.	Rs.	. A	. P.	Rs.	Α.	P.	Rs.	٨.	P.	
Taldunda Canal System Kendrapara Canal System High Level, Range I	310 0 7,917 2 1,210 4		3,365 52,418 7,343	6	7 8	370 5,775 794	1 15	0 0	2,690 45,597 6,709	12	0 6 9	
Ditto, " 1I Ditto, " 1H Jajepore Canal	335 14 80 12 18 13	3 9 5	2,748 1,110 116	3	6	523 297 12	15 9 7	0 10	2,562 1,194 86		6 6 9	
Total Orissa Circle	9,872 15	0	67,102	7	3	7,776	11	7	£7,751	13	0	1.0
South-Western Circle.			,									
Midnapore Canal	11,809 12 165 0	8	1,29,016 38,503			14.217 3,041	38	9	1,31,691 50,526		6 9	10
Total South-Western Circle	11,974 12	9	1,67,519	15	3	17,258	12	6	1,82,218	9	3	
Sone Circle.												
Patna Canal System	1,820 2	3	22,046			1,032	9	3	21,949	4	9	
Arrah ditto	1,317 2 734 15	6	16,625 6,572			896 <b>500</b>	7 12	9	17,184 8,112	2	6	
Total Sone Circle	3,872 4	0	45,245	4	10	2,429	13	0	47,195	9	5	
GRAND TOTAL	25,719 15	9	2,79,867	11	4	27,465	5	1	2,87,165	15	8	

## GOVERNMENT TRANSPORT SERVICE.

				TRA	PPIC	, 1989-90.								PRAI	PFIC,	IC, 1884-89.					
CAFAL		During the month.				T	o end of	the mon	ıh.		1	During th	e month			To sad of the month.					
	Passen- gers, Goods,		Total	stal receipts.		Passen- gers.	Gonds.	Total receipts.		Passen.	Goods,	Total recepts		pts.	Passeris- green.	Goods.	. Total receipts				
Orissa Circle.	No.	Mds.	Rs.	۸.	P.	No.	Mdn.	Rs.	A.	P.	No.	Mds.	Rs.	٨.	P.	No.	Mds.	Re. A.			
High Level	1,156	1,137	1.026	8	6	7,936	7,991	9.317	4	10	955	3,155	1,380	8	4	5,304	7,179	6,516 3			
Total Orinsa Circle	1,166	1,157	1.026	8	0	7,986	7.994	9,317	4	10	965	3,155	1,380	8	4	6,304	7,179	6,616 3			

# TOTAL NAVIGATION RECEIPTS.

		Barbis 61, 1889-90.						Bannings, 1859-ru.				
CARAL.		During the month.			To end of the month.			During the month.		To end of the month,		Busance
	1	Rs.	Α.	P.	ks.	Α.	₽.	Ra.	A. P.	Re. A.	P.	
Orissa Canals Midnapero Canal Unigotimo Tidal Canal Sone Canals	000	10,899 11,809 165 3,872	7 12 0 4	8 3 6	76,419 1,29,016 38,503 45,245	2 13	3	9,156 14,217 3,041 2,429	8 9	64,267 0 1,31,691 12 50,526 12 47,195 9	6	
Total	•••	26,746	8	3	2,59,155	0	2	28,845	8 5	2,93,681 3	4	

CALCUTEA,

The 20th May 1890.

G. A. G. SHAWR,

Under-Secy. to the Goot. of Bongal.

Under-Secretary to the Goot, of Bengal.

R. A. G. SHAWE,

# PUBLIC WORKS DEPARTMENT, -BENGAL.

# IRRIGATION BRANCH.

Statement showing heights over mean rea-level and low-water in the Rivers Ganges, Bhagiruthes, Jellinghee, and Brahmapootra for the month of February 1890.

ER FOOTEA.	afty.		1	Meight over mean sea-leval.	2						
BEARMAFOOTEA.	Gowhatty.			Helght over rate.	\$2000000000000000000000000000000000000						
RIVER FLINGHEL	Serupgunge.			Beight over mean							
Jerra	Gerap			Height over sero.	######################################						
BRAGINCTION.	Berhampore.			Height over mean pea-level.	## ## ## ## ## ## ## ## ## ## ## ## ##						
	Bertun			Height over pero.							
Elvin Garene.	pdo.	est	eroqmafi morv dasinasti	Relebt over mean	10-15   10-15						
	Goalundo.	100	Prom. Brance	Height over 11/10.	E222226662348872557422						
	Beauteah.	00	-dedaß morf egaan	Beight over meah pen-fruit.	######################################						
	Estapore	1.00	From Sentres	Height over mro.	2000 2000 2000 2000 2000 2000 2000 200						
	rage.	96	From Monghyr	Height over mean sea-level.	2010 2010 2010 2010 2010 2010 2010 2010						
	Subobgungs.	201	Stone Benuns	Height over sero.	20000000000000000000000000000000000000						
	Monghyr.	ott	From Dimapur	Height over mean nea-level.	100.171 100.17						
		282	strand morv	Height over sero.	40000000000000000000000000000000000000						
	Dinspur.	20	string most	Height over mean	21111111111111111111111111111111111111						
		щ	Prom Beneros	Relght over sero.	######################################						
	Busser.			Beight wer mean	Putassing the same and same an						
		Q6	seraned short	Height over sero.	· · · · · · · · · · · · · · · · · · ·						
	Benarce.	99	-myll morl	Height over mean scalevel.	197 51 107 52 107 55 107 55 107 15 107 107 10 107 10 107 10 107 10 107 10 107 10 107 10 107 10 107 10 107 1						
		120	-adailA mor9	Height over zero,	12222222222222222222222222222222222222						
	Par.	98	pag	Height over mean sea-level.	200 - 41 - 42 - 42 - 43 - 44 - 44 - 44 - 44 - 44						
	Miraspar		-adalia mmT	Height over zeco.	######################################						
		Jeel 1 Mar.	[Nutanes.		141113131111111111111111						
			DATE								

Calcorada, The 19th May 1890.

PUBLIC WORKS DEPARTMENT,—BENGAL. IRBIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OPPICIAL TRAE 1889-90.

Areas leased for irrigation up to the end of February 1890.

		BITARIO.			(	4					Whole month	3 Days dis-			• Decresso in annual leave	years' leader.		6	
-the	1,856-69.	To to end of Booth.	Inches.	8	80.08	27.50	5	91.19	14 888	:	8	59.00		200, 222	2 4 8 0 0 1 0 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 1 0	17		*********	1
Bair	1,000	During month.	Inches.	3 0-17	83	Dr. Dr. O.	0.40	0.28	701440	***************************************	4.80	£:		-	H S S	1::	;	:	
fell	1806-90.	T'p to end of month.	Tocher.	3	8 28	No enum	72-88	96.03		2000	16.90	1		2000	45.24	1			90.00
9	1881	During month.	Inches.			:			1	00000	00.0	8	0	1	2 5	:	i	1	- 1
		GRAND TOTAL.	Acres.	27.984	62,456	9 40 Bright	20,021	84,490	173,404	130,384	61,19	4,999	98,945	62,230	120,500 100,00	804,908	\$20,055	546,782	1987
		Total	Acres.	ă	190'9	819	25	5 8	6,174	8,927	R	980	\$	2,88	20,000 20,000 20,195	98,680	100,784	905,506	38,881
		Hot-wasther.	Acres.				44	88				901110		patrice .	25.2960 8,373	18,037	990'6	12,037	9,664
RASED.	casses.	.iobed6	Acres.		1	1 1	1		T.	1 2	1	::	-		*\$5"	8	2	196	100
T OVERA C	Annual leases.	Sugarcase,	Acres.	2	35	0	•	2	150	175	i		1		25.55 25.55	4,110	3,348	4,988	3,588
DETAILS OF ARRAS LEASED.		.idafi.	Acres.	-	3,963	200	780	10	5,605	2,936	11	3	198	1,500	8 17 0 17 0 17 0 17 0 17 0 17 0 17 0 17 0	18.189	64,924	26,174	61,136
		Therit.	Acres.		\$		10	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	120	194		1.00.00		3	13, 154° 13, 154° 19, 21, 7° 7001	80,728	71.19	60,877	71,380
	rig,	Prve ymere, klan	Acres. 10.483	87,78	61,487	2,390 19,101	25,16%	34,600	167,230	136,167	61,284	6,350	46,594	909'00				253,826	197,488
	wdon	Pive years, all o	Acres.		440000	******	100 000	111110			100 100	0 0 0	1	100 000	15.274 67.987 106.990 1,132	250,595	199,981	\$20,000	199,991
21 4	m mi	a stamizorqqA istanti seban etab smat ndt	Acres.	87.539	50 CE	1,717	9 3 3 C	200 State	142,966		49,700	200	MATT		20, 735 20, 106 100, 454	254,040		881,168	
Ell 3	201121	A ppresiment and a contract of the contract of	Acres.	27,748	40,304	1,500	19,365	85,740	155,303	badhe 4	61,78	20 ES	63,862	99.0	\$0,546 142,569 1,610	906,160	1	827,106	Phenos
	1900	ilitu <b>egrados</b> iQ	ت رن چ 8		180-48	12.50	17.19		******	1 2	011904	Angd 39	000000	1	200 00 00 00 00 00 00 00 00 00 00 00 00	1:	****	- E	-
17	ogradi	onib enerve.	500	9 9	256.60	13.76	1000	*******	060 + 120	4 4 4 8 8 9	*	The state of the	0.00		1,195 1,05 1,05 1,05 1,05 1,05 1,05 1,05 1,0	T	2.1. max		1
relier	Mrail)	(int botomire)	5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	7	1,orr	SALE SALE	300	727.16	9.00.00.0	144 800	1,611	200	:		4.3eg				***
		Okand.	Taldunda, 191 reach	12 Mary	es .	In. extension	Much Lovel, Rame I		Total	Total of the certrepositing period of last year	Midnapore	Panchhoorah Tidal reschoa, Ramus I-II	Total	Total of the carresponding period of last year	Western Main Burge Arreh Latern main	Total	Total of the enresponding period of tast year	Grand Total	Grand Total of the corre- sprinding period of last year
		Distract.	No. 11		Cuttack			Balances			2 Midnesses	-			Shahabad Pates and				
		Clear		-		Ontana					1				Sorra Sorra				

CALCUTTA, The 19th May 1890.

G. A. G. SHAWE, Under-Secy. to the Goot. of Bengal.

# PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

#### SOUTH-WESTERN CIRCLE.

#### NUDDEA RIVERS.

Statement showing quantities of Goods carried during the month of March 1890.

			TOTAL GOVERNMEN	T AND PRIVATE.		PRIVATE	t.		
stamber of bosts or rafts.	DESCRIPTION.		Quantity-Tons.		Value.	Quantity.	Value.		BEE.
Sitting		Up.	Down.	Total.	Rupees,	Tons.	Rupees.		REMARKS
400	1. Grain	881	3,255	4,136	2,31,806	4,136	2,31,8	306	
	2. Cotton	*****	1 700	1,702	2,03,107	1,702	9 09 5	107	
117	3. Oilseeds	373	1,702	373	34,068	373	2,03,1 34,0		104
156	5. Piece-goods				02,000		0.21		2
14	6. Metalf	65	7	72	55.695	72	55,0		TA TU
23	7. Building materials	280	16	296	7,212	296		212	
537	8. Miscellaneous	2,024:35	3,045.60	5,069.95	9,54,947	5,069.95	9,54,9		
52	9. Fuel	490	126	616	8,162	616	8,1	162	on Ms
Rafts 67	10. Timber	155 c. ft.	20,422 c. ft.	20,577 c. ft.	61,730		61,7	730	
,, 6	11. Bamboos	200 ,,	2,100 ,,	2,300 ,,	142	2,300 "		142	Dansel.
1,299 ₺	12. Total	{ 4,113·35 & 855 c. ft.	8,151-60 &	12,264.95 & 22,877 o. ft.	} 15,56,869	{ 12.264.95 & 22,877 o.ft.	} 15,56,8	369	unde p
73 rafts.		C 000 G IC.	22,522 c. ft.	22,011 0. 10.	,	22,0110.11.	,		om di
1,499 &	13. Total of same	€ 5,270 &	9,429 &	14,699 &	\$15,01,617	14,699 &	15,01,6	17	9 1
12 rafts.	month last year	1,657 o. ft.	1,260 a. ft.	2,917 o. ft.	, , , , , , , , , , , , , , , , , , , ,	2,917 c. ft.	1,,-		
		Up.	Down.	Total.			Rs.		
4. Total	number of boats ply-	1	1		Total tollage	of month—	20.8.	A.a	P.
	cargo No.	600	699	1,299	24 + 25 + 26	3	7,869	9	0
40. Emp	ty beats and steamers,								
do.		728	138	866	Total tollag				
	number of boats ply-	000			month last	year	7,957	6	9
ing	passenger No.	800	508	1,308					
	tto empty boats ,,	3	3	6					
	registered tonnage, go Tons	20,410.5	17,202	37 619.6	Men	norandum of 2	ollage.		
7 Total	registered tonnage,	20,2100	17,202	37,612.5					
	senger Tons	153	128	281					
8. Ton-ra		4	140	201	1 Balance	not recovered	Re.	A	-
	ated value of cargo Rs.	5,72,629	9,22,368	14,94,997		lat of the	4,000	40.	20
	per of passengers No.	1,003	1,892	2.895	month	***	345	0	6
	bamboos C. ft.	200	2,100	2,300					
2. Do.,		155	20,422		2. Tollage per	r month	7,869	9	0
3. Estim	ated value of rafts Rs.	481	61,391	61.872			-	-	
4. Tollag	ge on boats ,,	3,401-9-6	4,101-2-0	7,502-11-6	3. Total	•••	8,214	9	E
5. Compo	ounded tollage on					.,			
boa					4. Amount	paid into			
o. Tollag	ge on rafte ,,	2-13-0	364-0-6	366-13-6		y during the	0.010	0	
. Total	tollage on boats per				month		8,019	9	G
	-mile* tollage on rafts per 100	*****	*****	*****	5. Balance de	ue at the end		-	
R That I	EDITORIA ON POSSE NOT ITELL								
8. Total	io feet Rs.	*****	*****	1-9-7	of the r	month	195	O	0

Boats in these rivers do not pay per mile.

Abstract for the month of March 1890 as compared with the corresponding month of the previous year.

				1	889-90.		18	36-30.
			Duri	g the month.	To end of the	be meath.	During the month.	To earl of the month
ollage .	000	•••	7,8	8. A. P. 69 9 0	Rs.,	A. P. 5 3	Rs. A. P. 7,957 6 9	Rs. A. P.
The 19th	May 1890.		þ		•	/	G. A. G. Under-Secy, to the	

# PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

SOUTH-WESTERN CIRCLE.
ORISSA COAST CANAL SYSTEM.

LENGTH OF CANAL OPEN, 971 MILES.

Statement showing quantities of Goods carried during the month of March 1890.

			TOTAL GOVERNMENT	AND PRIVATE.		PRIVA	ITR.	1
Humber of brats or rate.	DESCRIPTION.		Quantity-Tous.		Value.	Quantity.	Value.	
Pierce.		Up.	Down.	Total.	Rupent.	Tons.	Rupees.	
421	1. Grain	4,179	151	4,330	1,56,274	4,330	1,56,274	
4.01	2. Cotton	******	*****	******			900	ł
3	3. Oilseeds	3		3	360	378	360	1
45	4. Salt	. 1	377	378 25	42,103 4,900	25	42,103	1
6	5. Piece-goods	*****	25	10	2,100	20	4,900	- 1
4	6. Metal	1		298	7,875	86	586	- 1
57	7. Building materials	161	137	618	60,746	562	59,850	
881	8. Miscellaneous	150	161	205	1,290	205	1,290	
28	9. Fuel		51 c. ft.	1,079 o. ft.	720	708 o. ft.	485	
6 rafts	10. Timber	1,028 c. ft.		1,392 ,,	159	1,392 ,,	159	
0 ,,	11. Bamboos	630 ,,	762 ,,	2,000 11			200	
		( 4.539 &	1,328 &	5,×67 &	} 2,76,527	∫ 5,591 &	} 2,66,107	
1,445 &	12, Total	1,658 c. ft.	813 c. ft.	2,471 o. ft.	32,10,021	2,100 o.ft.	3 2,00,107	
Crafts.					1	1	1	
1,083 &	13. Total of same	8,265 €	1,568 &	4,833 &	2,59,204	14,788 &	2,58,543	
				0.000 - 84	I Thought		1 5000	
	month last year.	1,183 c. ft.	2,808 o. ft.	3,986 c. ft.	17	1 8,986 c.ft.	,	
	month last year.	1,183 c. ft.	2,808 o. ft.	Total.	,	( 5,300 C.IC.	1	
6 rafts.					Total tolls	ge of month	Rs.	
6 rafts.	number of boats plying	Up.	Down.	Total.	Total tolls 24+25+	ige of month	Rs.	
6 rafts.	number of boats plying				24+25+	ge of month	Rs.	
6 rafts. 4. Total rearge. 5. Total	number of boats plying go No. number of boats ply-	Up.	Down.	Total.	24+25+	ige of month	Rs. 7,972	
4. Total : ear	number of boats plying No. number of boats ply-passenger No.	Up.	Down. 772	Total.	24+25+ Total toll	ige of month	Rs. 7,972	
4. Total : care 5. Total ing 6. Total	number of boats plying No. number of boats ply- passenger No. registered tonnage,	Up. 673	Down. 772	Total.	24+25+ Total toll	ige of month	Rs. 7,972	
4. Total : car total ing 6. Total car	number of boats plying yo No. number of boats ply- passenger No. registered tonnage, yo Tons	Up.	772 72	Total. 1,445 189	24+25+ Total toll month las	age of month 26 lage of sa	Rs. 7,972 ms 7,266	
4. Total : ear. 5. Total ing 6. Total car. 7. Total	number of boats plying yo No. number of boats ply- passenger No. registered tonnage, yo Tons registered tonnage,	Up. 673	772 72	Total. 1,445 189	24+25+ Total toll month las	ige of month	Rs. 7,972 ms 7,266	
4. Total : earge. 5. Total ing 6. Total carr. 7. Total pass	number of boats plying yo No. number of boats ply- passenger No. registered tonnage, yo Tons registered tonnage, senger Tous	Up. 673 67 8,653	772 72 6,014	Total.  1,445 189 14,697	24+25+ Total toll month las	age of month 26 lage of sa	Rs. 7,972 ms 7,266	
4. Total : ear. 5. Total ing 6. Total car. 7. Total pass	number of boats plying yo No. number of boats ply- passenger No. registered tonnage, yo Tons registered tonnage, senger Tous	Up. 673 67 8,653	772 72 6,014 859	Total.  1,445 189 14,697 1,841	24+25+ Total toll month las	age of month 26 lage of sa	Rs. 7,972 ms 7,266	
4. Total : earge for Total ing for Total carrows Formal pass S. Ton-m 9. Estims	number of boats plying yo No. number of boats ply- passenger No. registered tonnage, yo Tons registered tonnage, senger Tous ileage	Up. 673 67 8,653 982 268,967	772 72 6,044 859 182,811	1,445 189 14,697 1,841 451,778	24+25+ Total toll month las	age of month 26 lage of sa it year	Rs. 7,972 7,266	
4. Total : earge for Total ing for Total pass for Total in Total i	number of boats plying yo No. number of boats ply- passenger No. registered tonnage, yo Tons registered tonnage, senger Tous ileage ated value of cargo Rs. er of passengers No. bamboos C. ft.	982 268,967 166,982	772 72 6,044 859 182,811 108,666	1,445 189 14,697 1,841 451,778 2,75,648	24+25+ Total toll month las	age of month 26 lage of sa at year  emerandum of	Rs. 7,972 ms 7,266  Tollage. Rs.	
6 rafts.  4. Total ing 6. Total ing 7. Total pass 8. Ton-m 9. Estims 0. Numbel Bafts, 2. Do.,	number of boats plying No. number of boats ply- passenger No. registered tonnage, registered tonnage, senger Tous ileage ated value of cargo Re. er of passengers No. bamboos C. ft. bullahs	982 268,967 166,982 2,444	772 72 6,044 859 182,811 108,666 2,839	1,445 189 14,697 1,841 451,778 2,75,648 4,783	24+25+ Total toll month las  M.  1. Balance on the	age of month 26 lage of sa at year  emerandum of not recover lst of the mo	Rs. 7,972 ms 7,266  Tollage. Rs. red 5,854	
6 rafts.  4. Total ing 5. Total ing 6. Total car 7. Total pass 9. Estima 9. Numbel. Bafts, 2. Do., 3. Estima	number of boats plying No. number of boats ply- passenger No. registered tonnage, registered tonnage, senger Tous ileage ated value of cargo Re. er of passengers No. bamboos C. ft. bullahs ated value of rafts Re.	982 268,967 166,982 2,444 630 1,028 738	772 72 6,044 859 182,811 108,666 2,339 762 61 141	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879	24+25+ Total toll month las	age of month 26 lage of sa at year  emerandum of not recover lst of the mo	Rs. 7,972 ms 7,266  Tollage. Rs.	
6. Total ing 6. Total ing 7. Total pass 8. Ton-m 9. Estims 9. Numbel Bafts, 1. Do., 3. Estima	number of boats plying to No. number of boats ply- passenger No. registered tonnage, registered tonnage, senger Tous ileage ated value of cargo Rs. er of passengers No. bamboos C. ft. bullahs ted value of rafts Rs. e on boats	982 268,967 166,982 2,444 630 1,028	772 72 6,044 859 182,811 108,666 2,339 762 61	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079	24+25+ Total toll month las  M.  1. Balance on the	age of month 26 lage of sa at year  emerandum of not recover let of the mo per month	Rs. 7,972 mo 7,266 Tollage. Rs. 6,854 7,972	
4. Total : car 5. Total ing 6. Total car 7. Total pass 8. Ton-m 9. Estims 0. Numbel 1. Bafts, 2. Do., 3. Estima 4. Tollage 5. Compo	number of boats plying to No.  number of boats ply- passenger No.  registered tonnage, senger Tons registered tonnage, senger Tons ileage ated value of cargo Rs. er of passengers No. bamboos C. ft. bullahs ted value of rafts Rs. e on boats unded tollage on	982 268,967 166,982 2,444 630 1,028 738	772 72 6,044 859 182,811 108,666 2,339 762 61 141	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879	24+25+ Total toll month las  M.  1. Balance on the 2. Tollage	age of month 26 lage of sa at year  emerandum of not recover let of the mo per month	Rs. 7,972 ms 7,266  Tollage. Rs. red 5,854	
6. Total rear. 5. Total ring 6. Total car. 7. Total pass 8. Ton-m 9. Estima 9. Estima 1. Bafta, 2. Do., 3. Estima 4. Tollage 5. Compo	number of boats plying to No.  number of boats ply- passenger No.  registered tonnage, registered tonnage, senger Tous ileage ated value of cargo Re. er of passengers No. bamboos C. ft. bullahs ated value of rafts Re. e on boats unded tollage on te Re.	982 268,967 166,982 2,444 630 1,028 738 4,708-15-0	772 72 6,044 859 182,811 108,666 2,339 762 61 141 3,222-3-6	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879 7,931-2-6	24+25+ Total toll month las  M.  1. Balance on the 2. Tollage	age of month 26 lage of sa at year  emerandum of not recover lat of the mo per month  Total	Rs. 7,972 mo 7,266 Tollage. Rs. 6,854 7,972	
6 rafts.  4. Total search of the control of the con	number of boats plying No. number of boats ply- passenger No. registered tonnage, registered tonnage, senger Tons ileage ated value of cargo Re. er of passengers No. bamboos C. ft. bullahs ated value of rafts Rs. e on boats unded tollage on ts. e on rafts	982 268,967 166,982 2,444 630 1,028 738 4,708-15-0	772 72 6,044 859 182,811 108,666 2,339 762 61 141	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879 7,931-2-6	24+25+ Total toli month las  M.  1. Balance on the 2. Tollage 3.	age of month 26 lage of sa at year  emerandum of not recover lat of the mo per month  Total	Rs. 7,972 me 7,266 Tollage. Rs. 6,854 7,972 13,826	
4. Total reary 5. Total ing 6. Total cary 7. Total pass 8. Ton-m 9. Estims 0. Numbe 1. Bafts, 2. Do., 3. Estims 4. Tollage 5. Compo	number of boats plying to No. number of boats ply- passenger No. registered tonnage, registered tonnage, senger Tons ileage ated value of cargo Re. er of passengers No. bamboos C. ft. bullahs ated value of rafts Rs. e on boats unded tollage on ts Rs. e on rafts tollage on boats per	982 268,967 166,982 2,444 630 1,028 738 4,708-15-0	772 72 6,044 859 182,811 108,666 2,339 762 61 141 3,222-3-6	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879 7,931-2-6	24+25+ Total toll month las  M.  1. Balance on the 2. Tollage 3. 4. Amount	age of month 26 lage of sa at year  emerandum of not recover lat of the mo per month  Total	Rs. 7,972 ms 7,266 Tollage.  Rs. 6,854 7,972 13,826	
4. Total reary 5. Total ing 6. Total cary 7. Total pass 8. Ton-m 9. Estima 9. Estima 1. Bafta, 2. Do., 3. Estima 4. Tollage 6. Compo boat 6. Tollage 7. Total	number of boats plying to No.  number of boats ply- passenger No.  registered tonnage, senger Tons registered tonnage, senger Tous ileage ated value of cargo Rs. er of passengers No. bamboos C. ft. bullahs ated value of rafts Rs. e on boats unded tollage on ts Rs. e on rafts tollage on boats per mile Rs.	982 268,967 166,982 2,444 630 1,028 738 4,708-15-0	772 72 6,044 859 182,811 108,666 2,339 762 61 141 3,222-3-6	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879 7,931-2-6	24+25+ Total tolimonth law  1. Balance on the 2. Tollage 3. 4. Amount treasur month	age of month 26 lage of sa at year  emerandum of not recover lat of the mo per month  Total  paid in y during	Rs. 7,972 ms 7,266  Tollage. Rs. 5,854 7,972 13,826 mto the 8,371	
4. Total reary 5. Total ing 6. Total cary 7. Total pass 8. Ton-m 9. Estima 9. Estima 1. Bafta, 2. Do., 3. Estima 4. Tollage 6. Compo boat 6. Tollage 7. Total ton-	number of boats plying to No. number of boats ply- passenger No. registered tonnage, registered tonnage, senger Tons ileage ated value of cargo Re. er of passengers No. bamboos C. ft. bullahs ated value of rafts Rs. e on boats unded tollage on ts Rs. e on rafts tollage on boats per	982 268,967 166,982 2,444 630 1,028 738 4,708-15-0	772 72 6,044 859 182,811 108,666 2,339 762 61 141 3,222-3-6	1,445 189 14,697 1,841 451,778 2,75,648 4,783 1,392 1,079 879 7,931-2-6	24+25+ Total tolimonth law  1. Balance on the 2. Tollage 3. 4. Amount treasur month	age of month 26 lage of sa at year  emerandum of not recover lat of the mo per month  Total  paid in y during	Rs. 7,972 ms 7,266  Tollage. Rs. 5,854 7,972 13,826 mto the 8,371	

Abstract for the month of March 1890 as compared with the corresponding month of the previous year.

			1800-	00.	1036-00.				
			During the month.	To end of the mouth,	During the month,	To end of the mostle			
			Bs. A. P. S	. Ва. А. Р.	Ra. A. P.	Ra. A. P			
Tollage	***	 	.7,972 9 6	63,231 6 6	7,266 6 3	67,372 11			

CALCUTTA,
The 19th May 1890.

G. A. G. SHAWR, Under-Secy. to the Gout. of Bengal.

# PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

#### SOUTH-WESTERN .CIRCLE.

#### CALCUTTA AND EASTERN CANALS.

Statement showing quantities of Goods carried during the month of March 1890.

	275	1	TOTAL GOVERNMEN	T AND PRIVATE.		Parv	ATR.	
number of boats or	DESCRIPTION.		Quantity-Tons.		Vatue,	Quantity.	Value.	REMARKS.
		Up.	Down.	Total.	Ropess.	Tons.	Rupers.	Si and
919 5 14 404	1. Grain 2. Cotton 3. Oilseeds 4. Salt	19,476 95 109 408	21 41 7,091	19,497 95 150 7,499	21,76,078 48,150 24,750 7,34,895	19,497 95 150 7,499	21,76,678 48,150 24,750 7,34,895	
41 265 1.857 534	5. Piece-goods 6. Metal 7. Building materials 8. Miscellaneous 9. Fuel 10. Timber 11. Bamboos	566 7,401 12,654 11,870	13 238 1,714 1,391	579 7,639 14,368 13,261	78,400 1,30,755 17,31,533 1,00,103	579 7,639 14,368 13,261	78,400 1,30,755 17,31,533 1,00,103	and dead of
4,089	12. Total	52,579	10,509	63,088	50,24,664	63,088	50,24,664	
3,860 & 5 rafts.	13. Total of same month last year	53,767 & ] 1,200 c. ft.	8,308	62,075 & 1,200 c ft. }	45,77,252	} 62,075 & 1,200 c.ft	45,77,25	2
1		Up.	Down.	Total.		<del></del> = <u>-</u>		A 40 A 10
. Total :	number of boats plying go No.	3,436	603	4,039	Total tolla	ge of mont	07 90	
	number of boats plying	1,902	841	2,743	017207	20	07,00	0 14
	songer No.	500	3	503	Total tollag	e of same mo	nth 38,64	5 1
6. Total	registered tonnage, Tons	165,311	27,767	193,078		emorandum a	f Tollage.	
7. Total	registered tonnage, senger Tone	1,042	16	1,058			1	-
8. Ton-m	nileage	14,71,085	277,670	1,748,755			Rs	. A.
9. Estim	ated value of cargo Rs.	40,90,507	9,34,157	50,24,664		not recove		
0. Numb	er of passengers No.	2,239	12	2,251	mont		1,60	4 6
. Rafts,	bamboos C. ft.			*****	2. Tollage	per month	37,33	5 12
2. Do.,	bullahs ,,	** ***		4 > 4 0 0 0				
3. Estima	ated value of rafts Rs.	00000	000	D00140	S. Total		38,940	3
. Tollag	e on boats	30,528-10-6	6,807-2-0	37,335-12-6				
boa boa			••••		4. Amount treasu	paid in	nto	
6. Tollag	e on rafts ,,		*****		month		38,406	10
ton-	tollage on boats per mile Rs. tollage on rafts per	000000	400100	C-0-4·09		due at the en		
100	oubic feet Rs.		*****		of the	month	533	8

# ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS). CALCUTTA AND EASTERN CANALS.

				2	OTAL GOVERNMENT	AND PRIVATE.		Phiva	TA.	
fumber of boats or rafts.		DESCRIPTION.			Quantity—Tons.		Value.	Quantity.	Value.	
ralta.				Up.	Down.	Total.	Rupora.	Tons.	Rupees.	
274	(a)	Jute		7,221		7,221	9,09,855	7,221	9,09,855	
82	(5)	Jaggery	•••	692	108	795	1,11,250	795	1,11,250	
10	(0)	Sugar		52		52	13,775	52	13,775	
2	(d)	Tobacco			4	4	875	4	875	
567	(e)	Fish		168	1	169	47,277	169	43,277	
3	(5)	Hides		2		2	380	2	380	l
70	(9)	Poultry		16	•••••	16	13,889	16	13,839	l
168	(Å)	Hay and straw		1,489		1,489	31,278	1,489	31,278	
75	(J)	on		11	1,128	1,139	1,59,425	1,139	1,59,425	l
49	(k)	Earthenware		63	1	64	900	64	900	-
557	(111)	Other miscell neous	la-	2,940	477	8,417	4,42,679	3,417	4,42,679	
1,857	Tota	al Miscellancous		12,654	1,714	14,368	17,31,533	14,368	17,81,533	

# PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL. SOUTH-WESTERN CLICLE.

#### TOLLY'S NULLAR'.

Statement showing quantities of Goods carried during the month of March 1890.

	70	OTAL GOVERNMEN	Z ADO PELVATA.		Priv	14.00	_
Description.		Quantity—Tons.		Value.	Quantity.	Value.	Breake.
pata.	Up.	Down.	Total.	Rupees.	Tona.	Rapota.	1 2
3,697 3 2. Cotton 3 8. Oilseeds 4. Salt 5. Piece-goods 6. Metal 7. Building material 1,175 187 9. Fuel 10. Timber 11. Bamboos	128 2,645 4,089 2,629 1,528 c. ft.	25 63 141	12,879 22 25 926 128 2,670 4,152 2,770 1,528 c. ft. 633 ,,	12,69,545 11,250 3,500 90,737  15,900 10,445 3,53,276 21,274 3,820 105	12,379 22 25 926 	12,69.54 11,25 3,50 90,73 15,90 10,44 3,53,27 21,27 3,82	0 0 7 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
1469 & 12. Total	22,431 & 2,161 c. ft	641	23,072 & } 2,161 c. ft. }	17,79,852 {	28,072 & } 2,161 c.ft. }	17,79,8	52
4,251 & 13. Total of same month last year	1 /	473	21,803 & } 1,577 o. ft. }	12,54,806	21,803 & } 1,577 c.ft. }	12,54,8	06
	Up.	Down.	Total.				Re. A.
. Total number of boats plying cargo No.	5,396	73	5,469	Total tolla 24+25+	ge of montl 26	h— 11,3	
		164	1,088	Total tollag	ge of same mo	nth 10,9	29 0
passenger No  Total registered tennage cargo Tons		2,358	78,043	М	emorandum q	f Tollage	
7. Total registered tonnage, Tous		24	900				Rs. 4. 1
Ton-mileage	5,97,886	37,728	6,35,564		not recover		
Estimated value of cargo Ra	17,29,299	46,628	17,75,927	mont	th	25	22 11
	2,689	49	2,788	2. Tollage	per month	11,38	37 1
Number of passengers No	1						
		*****	633				
. Rafts, bamboos C. ft.			633 1,528	3. Total	•••	11.55	9 12
Rafts, bamboos C. ft. Do., bullaks	633			3. Total	•••	11,55	69 12
Rafts, bamboos C. ft. Do., bullaks Retimated value of rafts Re.	633	*****	1,528	3. Total	•••	11,65	9 12
Rafts, bamboos C. ft. Do., bullaks Bestimated value of rafts Rs. Tollage on boats	633 1,526 3,925 10,725-1-8	000	1,528 3,925		paid in	11,55	9 12
1. Rafts, bamboos C. ft. 2. Do., bullaks 3. Estimated value of rafts Rs. 4. Tollage on boats 5. Compounded tollage 6. Rafts, bamboos C. ft. 7. Rafts, bamboos C. ft. 8. Rafts, bamboos C	633 1,526 3,925 10,725-1-8	583-0-0	1,528 3,925 11,308-1-3	4. Amount	ry during t	ito	7 9
2. Do., bullaks 3. Estimated value of rafts Rs. 4. Tollage on boats 5. Compounded tollage rafts bouts Rs.	633 1,528 3,925 10,725-1-8	583-0-0	1,528 3,925 11,308-1-3	4. Amount treasu	ry during t	ito	

# ARTICLES OF TRAFFIC INCLUDED IN ITEM 8 (MISCELLANEOUS).

			To	TIL GOVERNMENT	AND PRIVATE.		Paiva	TH.
Number of		Duoculprion.		Quantity-Tous.		Value.	Quantity.	Value
mfla,			Up.	Down.	Total.	Rupors.	Tona.	Rupees.
6	(a) J	ute	77		77	9,675	77	9,675
99	(b) J	aggery	721	3	724	1,01,375	724	1,01,375
001000	(c) S1	ngar		*** ***	*****			*****
13	(d) T	obacco	128		128	25,095	128	25,095
183	(e) F	ish	38	*****	38	10,680	38	10,680
	(V) E	lides	,004	****	***	*****		
4	(g) P	oultry	1	* 6 G * * *	1	300	1	300
426	(h) E	lay and straw	1,281		1,281	14,694	1,281	14,694
35	(j) O	il	306		806	42,875	306	42,878
128	(k) E	arthenware	155	14	169	2,362	169	2,362
281		ther miscellane- ous.	1,382	46	1,428	1,46,220	1,428	1,46,220
1,175	Total	Miscellaneous	4,089	63	4,152	3,53,276	4,152	3,53,276

# ABSTRACT FOR THE MONTH OF MARCH 1890, AS COMPARED WITH THE CORRESPONDING MONTH OF THE PREVIOUS YEAR.

		TOAFFI	r, 1000-00.				Ťı	LAPPIC	. 1005-89.		-
	During the mer	nth.	To end of the	mont	h.	During the	moni	b.	To end of the	mont	h.
	Ra.	. P.	Rs.	A.	P.	Ra.	٨.	P.	Ra.	A.	P.
Calcutta and Eastern Canals	37,335 1	2 6	3,76,607	3	6	88,645	1	8	4,32,267	10	3
Tolly's Nullah	11,337	1 3	1,05,672	3	9	10,929	0	6	1,33,203	4	9
Total	48,672 1	3 9	4,82,279	7	3	49,574	1	9	5,65,491	1	0

CALCUTTA,
The 20th May 1890.

G. A. G. SHAWE, Under-Secretary to the Goot. of Bengal.

#### CIRCULAB AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 17th May 1890, as compared with the corresponding week of the previous year.

-	OF CAROO.		₩### #1 17	PRING SATERI PR MAY 1600.	DAY, THE	WHEN ENDING SATURDAY, THE 10TH MAY 1000.			
86800	dy Casso.		Number of boots,	Weight of energo.	Tollage,	Number of bonts.	Weight of cargo,	Tollage.	
			No.	Mds.	Rs.	No.	Mds.	Re.	
Rice and paddy Jute Pirewood Other articles	900 900 900	•••	187 18 89 660	87,925 15,660 54,176 1,66,016	538 268 809 2.813	247 14 33 682	74.798 7.960 14.726 2,34.610	1,161 106 222 2,991	
	Total	000	794	2,72,266	8,929	976	8,22,080	4,471	

#### Bengal Central Railway.

Abstract of principal commodities carried over the Bengal Central Railway during the month of February 1890, as compared with the same month of the previous year.

					181	00.	16	BP.	Tot	al.		
ÜTAPLI	KO.				Up.	Down.	Up.	Down.	1500.	1889.	Increase.	Decreus
					Tong,	Tons,	Tops.	Tona.	Tons.	Tone.	Togs,	Tone.
Cotton twist and yarn-	***	0.04	100	***	4,923	10	6,038	46	4,636	8,988		861
1.—European  1.—Budan  Cotton passe-posite—  1.—European	606		100	**								
a.—In bales and	bune	dim	500		302	ลา	186	06611	835	185	140	****
a. In bales and b.—In buton Grains—	bua/	dles	144	***								
5,-there	604	***	200 200	0-0 F	21 60	43 137	29	46 469	64 187	800 464	131	31
1,—Hities of cattle—  a,—Dressed  b.—Undressed	e00 405	144	100		1							
g.=Skins of shoop, &c. a.= Dressed b.=Undressed	***	100	147	911	*******	57	0 + 0 = 0-0	96	57	20	30	
Juta- 1.—Raw- 5.—L'nacrewed	4.00	600	000	241	*****	100	+ 5 a 4-00	78	100	76	20	
2Gunny-bugs and cl totals - 1Copper, an errough		199	***		10	1	12	******	10	13	000.004	
2. Bram and copper,	1.0.4		900	***	96	91	06	36	116	96	16	******
S.—Tin 6.—Others	000	20A 004	***	10-	)							
2.—Kerosine	000	000	001	000	323 150	00+110 00x 2+0	55. 66	100 100	122 180	83 48	dp 208	100.00
1 Linned  1 Rape and mustard  5 Ti: or gangelly	***	5 00 600	100 810	0.00								
4 North States	000	010	110	### ###	} 177	61	84	480	238	533		29.
6.—Printy	100	044 040	101	411			- 1					
1. forelenuts 3. Others	9.84	p-11 o	0-9 Fr	400	166	1,907	102	60 174	1,000	<b>69</b>	940 21	******
atiwas plant and rolling-	stock	660 660	***	***	70 198	30	31 127	11	1:03	41 127	67 66	000 000
1.—Drained 2.—Unit mined	0+1	***	100	201	} 00	256		3,186	446	1,213	001000	767
obacca It other witteles of merchi	andin	p—	869	***	19	•	10	13	38	23	6	******
4 84 4 1	***	411	0.04	***	418	173	203	107	891	460	101	120.411
		To	late	004	4,730	2,121	6,145	2,817	9.951	8,962	1,610	1,621

Comparative Statement of the principal commodities carried over the Bongal Central Railway during the month of February 1890.

						Tons.
	INCREASES.					
Cotton manufactures	4 + 4	b -	4	***		150
Due to increasing demand for up-country consumption.  Betel-inits  Almost exclusively from the B C. Flotilla Service		9.6.2	•••	***	***	940
	DECREASES.					
Cost			. 9 4	0-0-4	***	246
Ordinary fluctuations, the traffic being principally for l		17.9	4.0-4	+ 4.4	***	295
Failing off in despatches from Chandpors, Bongong, Ja Sugar This decrease was in despatches from Jhikargacha said	440	***	100	···	4+4	767

F. P. QUINLAN,

CALCUTTA, the 15th May 1890.

Examiner of Accounts and Joint Auditor.

## EAST INDIAN RAILWAY.

Statement of Goods Traffic in Staples carried during the five weeks ended 20th March 1890.

as compared with the same period of 1889.

		185	NO.	10	NB.	Incre	16.00.	Decre	18.00 ·
	STAPEMS.	Weight.	Freight.	Weight.	Proight.	Weight.	Proight.	Weight,	Prescht
LWINALA, RIVINO	Horses, ponice, and mules Castle Sheep and gente Other kinda	Mdn. No. 128 67 50 4,245	Ra. 2,659 743 3,578 103	Mds. No. 00 91 6,235	Ra. 1,796 483 8,804 193	Mds. No. 86	1,041 181	Mdn. No 94	Ra.
loras  ames and ratiana  benetchout (India  thinese and Jupun  bul and coke, up  Intro. dow	000 WATP 000 001 001 000 000 000 000 000 000 00	2,714 145 47 34 18,88,611 57,98,895	1,951 150 10 8 3,88,912 2,03,906	3,674 91 53 43 11,15,701 38,24,206	1,886 133 15 17 3,40,081 5,10,846	8,19,910	118	6 9 25,900	30,170 36,440
otton, raw	Twist and yarn (European)	1,14,484 9,980 12,017	1,70,75% 19,694 7,037	1,67,040 10,689 13,219	1,94,688 19,746 7,960	6,883	43,116	630	1,03
FACTURED.	Piece-goods (Ruropean) Ditto (Indian) Amfortida	1,09,073 29,616 804 2,615	2,20,854 14,584 280 2,633	1,75,712 29,051 433 2,469	2,26,123 14,539 217 2,612	13,161 485 71 63	39	000000 000000	8,24
DICINM.	opum, d.e., arsenic, bhank, ganja, and charat, &c.)	783	1,097	767	304	873 16	63	******	6
PRING MATE-	Indigo Madder or manjit Safflower Turmerio Other knda	8,570 16,580 10,215	4,476 19,015 5,831	1,477 11,645 11,939	1,941 3,495 7,438	8,102 6,066	2.6 to 6,120	1,781	1,00
ranovs 220-	Outo, raw (Juny) Do., manufactured (gunny) bage and clothe).	1,431 27,113 1,01,906	7,695 48,099	1,007 20,911 94,169	2,781 8,654 66,917 8,335	84 6,021 7,037	101 4,861 3,173	3,867	0+0+aq +** 4a +************************************
puers.	Other fibres, raw Ditto, manufactured Cocoanute All other kinds	2,980 3,703 44,307 2,02,005	6,465 771 2,667 27,300 74,694	1,493 6,989 38,482 2,87,678	351 3,771 25,259 69,714	6,113	300 3,041 4,950	2,846	1,10
mary & Pulies	Gram and pulses	3,40,538 9,74,120 4,713 75,942	89,705 1,40,063 1,740 10,310	2,63,738 9,70,410 42,853 1,01,789	08,125 1,65,609 0,510 14,650	\$2,100 3,710	10,597	35,140 15,840	25,84 8,87 4,24
overnment stores mas and regins tropp & Series	Hides of cattle	30,459 4,776 83,402 11,853	43,507 2,660 31,661 4,583	2J,093 4,500 81,731 19,173	88,000 2,570 <b>53</b> ,989 4,951	8,860 616	10,697	26,239	22,0
ormo	Lac, dys	2,071	1,167	1,850	1,063	221	96	452704	100 odu
AO	Do., shell Do., stick and other kinds Leather, unmanufactured Ditto, manufactured	19,680 29,213 1,017 9,483	3,698 3,698 3,819	17,540 28,650 2,663 3,715	18,545 7,380 8,801 3,603	3,131	******	437 149 238	31 10
lquors lato l	700	19,807 1,073 2,75,437 29,789 1,23,080	19,426 561 33,755 22,608 89,578	\$1,417 1,069 \$,07,235 18,821 1,01,279	17,854 470 34,720 11,660 60,549	15 8,172 14,408 21,761	. 599 - 81 16,533 33,029	1,590	97
OF.	CUther metals at an an	7,199 87,177 173 19,189	8,395 34,686 848 8,678	8,001 83,761 86,755 2,875	5,063 24,843 38,361 37624	3,470	9,692	20,580	87,8
PROVINIONS	Ghee Construction Account	35,648 11,247 49,580 4,41,360	23,341 11,515 2,440 1,46,351	\$6,101 10,518 1,50,633 3,10,366 5,09,037	18,750 10,930 3,7-6 62,038	931	4,503 1,558 84,353	80,863	1,8-
altysten, ko.	Subpetro	8,00,578 1,42,535 9,488 4,10,855 3,95,187	1,18,787 66,062 3,080 1,24,668 87,234	83,750 18,037 3,07,513 8,06,547	1,14,778 87,461 4,714 88,738 72,415	1,0%,840 80,000	10,931 41,200 15,020	31,76s	1,0
Communa I	Other citateds	17,407 RU,085 27,583	8,235 19,409 5,966	83,945 46,803	31,948 11,726	18,030	9,670	3,820 - 17,980	12,4
	Tea deed	201942 2019 2019	15,225 1,408	35,662 2,985	8,675 1,890 888	14,880	0,680	000000 000000 000000	10111
mees and marble		48,082 2,44,121 3,85,998 3,17,483	31,490 35,017 78,359 78,977	45,050 2,80,566 2,86,170 4,00,453	82,103 32,681 50,027 61,070	1,023 18,655 89,746	#,023 10,725 12,907	94444	6
EA our	Sugar, refined	1,937 47,729	1,394 23,351 26,100	34,890 85,617	2,591 16,519 18,175	12,870	0,501	351	1,1
	Timber Firewood Wool, raw Do., manufactured (Euro-	74,3541	4,7%E 631	30,883 746	800g 640	43,400 915	2,225 61	04000	1.2704 127702 100044 4
001	wool, manufactured (Indian)	1,194	2,180	1,137	1,098	87	102	012102 10 0000	6,0
ones ones		3,41,998 74,993 62,728	8,03,788 82,667 10,668	3,53,562 34,080 40,010	8,043 8,043 11,038	40,379	19,961	3,282	6,0
146	Total	1,90,00,854	31,90,051	1,14,32,500	19,50,317	44,15,500	4,04,206	4,07,345	1,64,4

General remarks on the fluctuation of principal staples carried over the East Indian Railway during five weeks ended 29th March 1890.

#### INCREASES.

Cotton.—The large increase in earnings, as compared with weight carried, is attributed to considerable despatches having been made to Calcutta from stations above Campore over long leads.

Gram and Pulses.—The increase is chiefly in despatches from stations on the Dinapore and Alishabad districts to Howrah, for shipment to Burmah.

Government Stores.—Principally in despatches of ammunition for Government from Howrah to Agra.

Iron.—This consisted chiefly of iron pipes and machinery for water-works at Allahabad, Agra and Delhi, from Howrah.

Oils.—Chiefly in despatches of kerosine-oil from Howrah to Jubbulpore, Agra, Delhi, and oid Ghaziabad.

Foreign Railway Material.—Chiefly in despatches from Howrah to Umaria and Umballa Cantonment.

Sadatpetre.—Chiefly from the North-West Provinces to Howrah.

Seeds.—The improvement was due to a demand for linead and mustard seed in Calcutta for export.

Timber.—Principally in despatches of sleepers and teak timber from Howrah to Mokamah Ghât and Agra.

Segar (refined).—Large quantities were despatched principally from stations on the Shahabad district and Campore to Agra.

Boses.—Chiefly in despatches from vid Moghul Sorai and Delhi to Bally.

Coal and Coke.—There was an increase in weight carried attended with a decrease in the carnings.

Rive (hunked and unhanked).— The continued absence of demand from the upper districts caused this decrease.

Wides.—The decrease was chiefly due to supplies having fallen short of notual requirements.

Opium.—This was due to smaller despatches from Patna and vie Tari Ghât to Howsah.

N. St. L. CARTER, Traffic Manager.

TRAVUIC MANAGER'S OFFICE, CALCUTTA, the 18th May 1890.

#### Weekly Return of Traffic Receipts on Indian Railways.

#### EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 1,526; miles open.

THE P	COACEIN	TRAFFIG.		PRIC.	Other ournings		TRAFFIC	TRAIS-MIL	RO BCX.
	Number of passengers.	Receipts.	Weight carried.	Receipts.	(ustimated).	Total earnings.	Conching.	Merchan- diss.	Total.
		Re. A. P.	Mps. s.	Be. A. P.	28. A. P.	Bo. A. P.			
real traffic for the week	231,460	2,63,086 9 0 173 9 11	34,88,198 10	6,30,552 3 8 413 5 8	20,702 0 0 13 9 2	9,15,240 12 8 599 15 6	63,471	97,230	163,410
LAPL " " " " " " " " " " " " " " " " " " "	0,657,900	82,67,420 15 0	4,73,46,765 0	1,10,90,228 12 0	3,59,474 1 9	1,06,87,123 18 9	1,701,107}	1,737,045	2,915,242
Total for 19 weeks	4,939,934	48,11,416 8 0	4,99,34,080 10	1,17,10,750 15 8	3,60,176 1 9	1,76,03,373 9 0	1,240,668}	1,834,084	3,081,6528
COMPARISON.									
tal for corresponding wook of previous year	304,417	2,69,273 13 10	81,44,962 10	7,18,507 8 11	18,993 15 6	10,06,778 0 5	65,271	110,270	175,541
"OF treach oil ormanistate Street	14444	178 8 8	136841	471 0 0	12 7 2	<b>689</b> 16 8	101041	101.114	447.00-
'al to corresponding date of	6,088,888	57,15,930 13 0	8,34,18,49H 10	1.17,14,667 8 7	8,18,833 4 P	1,77,46,460 5 4	1,282,006	1,857,846	3,110,540

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works Department Circular No. XXI, Railway, dated 23rd July 1883.

HECHIP:	CHIPTE FOR WHEE SEPTING RECEIPTS FOR WERE REDITED HAT 1800.						PRIE 1889 TO 11 MAY 1889.			PRIL ISSUE TO 10 MAY 1850.		Total	Total
Monn I mace wheel.	Receipts.	Per mile worked.	Mean mileage worked.	Zeceipte.		Mean nuleage worked.	Total receipts.	Per mile worked per week.	Mean mileage worked.	Total receipts.	role mile worked per week,	increase in 1890.	decrease in
.0284	Ra. 10,00,778	Ha.	1,848}	Ra. 9,18, <b>2</b> 80	Re.	1,635)	No. no.20,567	Ro.	1,525}	Rs. 54,58,786	Ro. 804	Rs.	B 1,06,761

### PATNA GYA STATE BAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 67} miles open.

			The state of the s	4				
	COACHING	TRAFFIG.	MEBCRAUDISE .	LAMBRIN CHA	Other earnings	Total cardings	TBAFFIG T	BAIN-MILES BUD.
	Number of passengers.	Receipts.	Wouldt carried.	Receipts.	(astimated).		Coaching.	Merchan- dine. Total.
		Ba. A. P.	Mps. s.	Bo. A. P.	Rs. A. P.	E6. A. P.		-
Total traffic for the work	13,562 313}	6,803 11 0 110 3 8	81,283 80 616 80	8,681 7 0 63 13 5	42 4 0 0 11 10	9,997 6 0 174 18 6	1,511	1,066 2,580
For previous 18 weeks of Ball-	242,503	1,22,632 3 0	8,83,105 19	87,178 7 0	609 0 0	1,80,784 10 0	20,000}	12,030 48,035
Total for 19 wooks	288,944	1,29,185 14 0	P,34,349 0	00,821 16 0	761 4 0	1,90,759 0 0	31,5:04	13,978 43,4994
Companison.							3 0000	
Total for corresponding week of	1 and an a	3,656 3 4	67,004.00	8,980 4 0	41 10 9		1,707	986 \$,519
Per mile of railway correspond- ing week of previous year	23.93	96 14 8	1,108 80	87 5 7	0 11 8	189 18 11	0.000	*****
Total to corresponding date of previous year	272,0054	1,46,118 19 4	6,16,543 20	47,978 18 0	3,466 6 6	1,96,648 18 10	33,986	18,669 47,665

Approximate Statement of grave receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

Rucatz	TE POR WERE	ENDING	Bacstr	TH MAT 1890.	EMPING.	ATOTA	MAY 1889.	m lar fil	TOTAL	MAY 1800.	m lor	Total	Total
Monts malenge worked.	Receipts.	Per mile worked.	Mean mileage curked.	Receipte.	Per mile worked.	Mean millenge worked.	Total receipts.	Por mile worked per week.	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in 1800.	Mercan i
87%	Ro. 0,000	Ra.	873	Ra. 9,997	Ra. 175	an à	No. 87,948	Ra. 169	67)	Ra. 63,141	Ro. 181	Ro. 4,173	Ra.

# TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week anded 10th May 1890, on 23; miles open.

	Coveniad	TRAFFIC		MERCHANDISE A TRAFF		Other enroings	Total	TRAFFIC	TRAIR-MILE	m Ros.
	Number of passengers.	Receipt	B,	Wmeht carried.	Receipts.	(estimated).	onlinings.	Coaching.	Morchan-	Total,
		Re.	4. 7.	M 20. 0.	Re. 4. 2.	Ro. a. P.	Re, a. P.			
Total traffic for the week	20,880	8,170 231	0 0	11,710 20	423 4 0 19 0 4	7 6 8	8,000 10 0 251 11 3	897	236	1,102
Aus bearions 12 Acces of min-	300,654	1,08,111	1 0	8,89,910 30	8,700 10 0	183 11 0	1,17,057 8 0	15,936	1,898	17,713
Total for 19 weeks	410,734	1,15,291	3 0	2,70,680 10	9,183 14 0	163 1 0	1,22,655 2 0	16,855	2,(80	18,835
Comparison.									-	
Torst for corresponding week of pro-cons year. Pur mile of railerry corresponding week of pre-violity year.	20,024	6,618			204 15 ( 17 18 (		1 250 7	3	<b>57</b>	961
Petal to corresponding date of	448,0056	1,17,646	9 (	1,84,646 0	6,864 10	187 12	1,54,880 8	6 17,518	1,160	19,67

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1883.

RECEIPT	s you were	ENDING	Backer	en por were bell Mat 1890	ENDING	TOTAL	RECEIPTS PROPRIET INSP.	m ler	TOTAL	RECRIPTO PRO PRIL 1880 TO 10 MAY 1890.	na lor erat	Total	Total
Mean milenço warked.	Receipte.	Per mile worked.	Mess worked	Receipts.	Per	Mean mileare worked.	Total rensipts.	For mile worked per week.	Mean mileage worked.	Total receipts.	Per mile workeil per week.	intraeth	decreas i
1	Re.	Ro.		Re.	Ba.		Ro.	Ra,		Ra.	Ra,	Ro,	Be
<b>31)</b>	. ,618	88	221	6,601	252	221	48,174	209	214	41,396	\$10	000 >= 0	1,779

#### EASTERN BENGAL STATE RAILWAY.

(Including N. B., Dacca, K. and D., and Assam-Behar Sections.)

Approximate Return of Traffic for week ended 3rd May 1800, on 747 miles open.

	COACHIN	o Traypi	10.	MERCHAN		PAND MIN	30 00	AL	Other ea		Total	n1		TRAPPIC	TRAIN-MILE	S EUT.
	Number of passengers.	Conchi		Worght carried.		Receip	pte.	4	SteamU		oaris)	ugo.	•	Coaching.	Merchan- disc.	Total
		Re,	A. P.	M Ds.	B.	Ro.	4.	P	Rs.	A. P.	Ma.	A.	2.			
Total traffic for the week	a244,610 327	78,030 102	0 0	6,13,700 FE1	0	1,02,160	0	0	20,490 415	0 0 0 0	254	0	0	23,181	29,467	82,59
1005 m	2,692,710	13,96,417	0 0	97,77,080	0	17.76,206	0	0	3,24,500	6 0	°34,29,018	0	0	391,868	502,375	965,42
Total for 18 weeks UDMPARISON.	3,937,820	14,02,347	0 0	1,01,00,180	0	18,75,426	0	0	8,57,187	0 0	30,31,083	0	0	405,079	891,412	957,59
total for corresponding week of presidue year	170,773	61,780			0				13,606					27,668	23,686	64,17
ing puriod of previous year	2,006,439	15,55,160		1					5,15,66\$			0 0		1	435,236	020,10

Audited up to wook ending 18th March 1850.
 Excluding standar entrings.
 Due to Fall Vole Jatra melà at Khurdaha.

#### FINANCIAL YEAR.

Approximate Statement of gross versipts of the Eastern Bengal State Ruilway.

	TO FOR WRIET TH MAY Just.			PTS FOR WERK BRD MAY 1890.	RUDING		L BRCEIPTS PR LPRIL 1889 TO MAY 1899.			PRINTERS PROPERTY OF STATE 1890.		Total	Total
tions minute earlied.	Recoupts.		Mean muleage worked.	Recoipts.		Mean mileage worked.	Total receipts	worked law worked work	Moun milesge worked.	Total receipts.	rer mite corked per wook.	1690.	1526.
	Ra.	Rs.		Ba.	Ba.	1	Ro.	Ra.		Ra.	Ro,	Ba.	Ro.
m	1,85,064	180	747	2,04,990	374	673	7,06,502	226	7.47	8,73,189	234	1,06,748	000411

#### BRNGAL CENTRAL RAILWAY.

Approximate Return of Traffic for week ended 3rd May 1890, on 125 miles open.

	COACHIR	O TRAFFI	c.	Линсичи		AND MI	122	AL	Other on		Tat	- 1		TRAFFIC	TRAIF-WILL	LO RUN.
	Number of passengers.	Coach		Weight carried.		Becen	pts,		(cathma		CULITION		B.	Coaching.	Merchan-	Total.
		Re.	A- P.	MDs.	8.	Ba.	Δ.	P.	Rs.	A. F.	Ra.	Δ.	P.			1
best eraffic for the week	30,950 202	9,780 80	0 0	48,830 817		2,940	0	0	150	0 0	13,070 185		0	8,738	1,937	5,671
7407 no en 111 men	478,944	1,63,136	0 0	9,17,897	0	82,483	0	0	1,048	0 0	92,16,664	0	0	61,902	32,301	84,243
Total for 15 weeks	803,194	1,73,114	0 0	9,61,247	0	85,498	0	0	1,198	0 0	2,29,734	0	0	68,637	84,238	99,978
Comparison.																
rai for corresponding week of previous year	36,499	9,319	0 0	62,981	0	4,115	0	0	122	0 0	13,549	0	0	3,620	2,031	5,679
ing period of previous your	276	74	0 0	804	0	23	0	0	1	0 0	106	0	0	494941	*00 000	**
Previous PCBP	\$19,988	1,70,198	0 0	10 22,267	0	57,959	0	0	4,680	0 0	2,41,707	0	0	86,046	34,635	100.731

<sup>.</sup> Audited up to week emiling 15th March 1890.

#### FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Centra! Railway.

Kachipi 47	a son wree II May 1840.	BEDING	RECEIP!	TA FOR WEEK	REDING		L RECKIPTS PRO L 18 TO STR 1499,			L 1800 TO SED 1 390.		Tota!	Total
R-na one lear	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.		Menn milesze worked.	Total receipts.	Por note worked por work.	Mean nulrage worked.	Total receipts.	Por mile worked per wook.	increase in 1600,	doorenso so
120	Ra. 18,649	Ra.	128	Be 18,070	Re. 103	12.	2a, 64,026	81a. 109	125	Re. 56,826	Ra. Dé	B	Ra. 8,:00

#### DACÇA STATE RAILWAY.

Approximate Return of Traffic for week anded Ard May 1890, on 86 miles open.

	COACHIN	G Tharr	IC.		MBRCHANI		AND MIN	ER	LAL	Other on	resis	tilen.	Tota	1		TRAFFIC	TRAIN-MILI	m ron,
	Number of passengers.	Conch			Weight		Keceij	ts.		(entauna)	led ;		oarnin			Conching.	Merchan- disc.	Total
		No	Α.	r.	Mpe.	8.	Ma	Δ.	P.	Re.	A.	p.	Re.	A.	p.			
Total traffic for the week	18,290	5,220 61	0	0	17,48a 203	13 ft	1,770 go	0	0	70	A 0	0	7,060	0	0	2,416	700	8,11
your	202,870	99,617	n	0	4,32,090	-(1-	41,114	0	0	2,874	0	0	*1,43,609	0	()	41,098	18,100	88,19
Total for 18 weeks COMPARISON.	308,150	1,04.837	0	0	4,49,500	6	40', 486	0	0	2,944	4	0	1,80,009	D	0	43,613	18,800	80,32
Potal for corresponding period of previous year for take of railway corresponding	16,000	4,938	0	0	13,607		675	Đ	0	238		0	8,146	0	U	2,645	823	8,30
peri d of previous year lot I to corresponding date of	187	4.0	0	0	188	0		0	0	3	0	0	de	0	0		,	001100
brasings hegt " " "	104,978	66,709	0	0	\$,11,865	9	17,700	0	0	3,008	0	0	1,07,426	8	0	44,078	23,960	87,131

<sup>\*</sup> Audited up to week ending 16th March 1990.

#### PINANCIAL YEAR.

Approximate Statement of gross receipts of the Dussa State Railway.

Becar	THE FOR WERK	Ending).		TO FOR WHER IND MAY 1890.	ER DING	APRI	L 1880 TO 47M 1889.	MAT TAM	Total	L RECEIPTS FEC LIL 1860 TO SED 1800,	MAY	Total	
Mean ribean rica d	Receipts.	Par mile workes:	Mean utimae sorked.	Receipte,	Per mile worked	Mean milage worked.	Total receipts.		Mean mileage worked,		Pre male worked per weak.	increase in 1890.	Total decrease in 1890.
	Ra,	Ra.		Ra	Re.		Re.	Ra.		Re.	Ba.	Ra,	lla
86	8,248	60	86	7,000	-	86	24,700	ah	86	38,020	eı	10,261	004.000

#### NALHATI STATE BAILWAY.

Approximate Return of Traffic for the week ending 10th May 1890, on 271 miles open.

	COAGRIE	O TRAFF	Ic.		MERCHAS		PPIC.	W N	RAI	Otherna		1				TRAPPEC	TRAIS-MILI	o ben.
	Number of nasangers.	Conch			Woight earned.		Room	pte	١.	icelima			Tota *arum			Conching.	Merchan-	Total
		Ra.	Δ.	P.	MDe	8.	Ro.	Δ.	2.	lla	4.	p.	Rs	Α.	,			
Total traffic for the west Or per mile of railway For previous 17 weeks of half-	8,267 120	1,150 42		0	4,932 181		208 11	0	0	16	0	0	1,674			\$40	204	761
7007	58,441	21,093	0	0	2,20,206	0	13,976	-0	0	1,778	0	0	36,540	0	0	8,944	8,363	17,367
Total for 18 weeks	63,109	£1,343	0	0	2,35,238	0	14,283	0	0	1,789	0	0	35,314	0	0	0,543	8,557	16,910
Jourannes.														Т	_			
Total for corresponding week at prescrite year	3,996	1,153	0		7,011	0	684	0		16	0		1,801	0		500	201	973
ng week of previous year.	114	43	0	0	220	0	26		0	1	0		66	0	0			179.00
provious year	62.798	23,772	0	0	2,09,040	0	18,600	0		1,668	0	0	88,068	0	0	9,006	8,576	17,600

#### PINANCIAL YEAR

Approximate Statement of gross receipts of the Nalkati State Railway.

	TH MAY IANG			TO POR WEEK		TOTAL	PRIL 1880 TO 111 MAY 1880.	ta lor	TOTAL	PASE 1800 TO 10 MAY 4690,	n ler		
Mean muence worsed.	Recorpts.	Par mile worked.	Mean milesys- worked	Recoupts.		Mean mileage worked.	Total receipts.		Mean mileage worsed.	Total receipts.	Per mile worked per wook.	Total increase in layo-91.	Total decrease in 1890-91
	e Ra.	Ro.		Ro.	Ra.		Be,	Ro.		Ro.	Ro.	He,	Bo
271	1,001	66	97)	1,076	86	273	9,613		97h	9,610	80	*** 0000	800

#### TIRHOOT STATE BALLWAY.

a Approximate Return of Traffic for the week ending 10th May 1880, on 278 metes open.

	COACHIN	o THATP	IC.	N RECHARD		FFIG.			Other ea		Total	. 1		Theppio	TRAIS-MII	RO ROF
	Number of passongers.	Conch		Weight oarried.		Baces	pta,		(welling		<b>ent</b> hi		le .	Conching.	Merchan-	Total
		Ra.	A. P.	Mps.	ø.	Ra.	A.	P.	Be.	A. P.	Ro.	Δ.	₽.			
or per mile of railway at previous 17 weeks of half-	48,765 166	16,871 60	0 0	2,24,307 823	0	27,640 301		0	8,028	0 0	<b>47,</b> 039 165		00	4,023	0,112	15,030
1005 en 101 en 101 en	830,477	3,40,402	0 0	46,70,281	0	0,94,722	0	0	86,098	0 0	0,30,222	0	0	941,980	170,823	361,772
Total for 18 weeks	886,344	8,65,778	0 0	48,00,855	0	5,52,369	0	0	59,125	0 0	9,77,961	0	0	95,578	175,000	274,47
COMPARISON.																}
to the sorresponding week of previous year	48,701	15,616	0 0	1,81,830	0	21,072		0	4,841	0 0	41,529	9	0	4,700	6,714	12,494
ing week of previous year	1.00	67	0 0	921	0	77	0	0	3	0 0	185	0	00	1.5+00	r de days	410 000
previous year	812,686	3,07,148	0 0	24,43,492	0	8,65,658	0	0	05,068	0 0	6,37,864			160,471	300,699	106,920

<sup>\*</sup> Steam-boat earnings excluded in calculating "Total earnings per mile of Railway."

#### FINANCIAL YEAR.

Approximate Statement of gruss receipts of the Terhoot State Kaslway.

ADCETP!	PR POR WRITE TH MAY 1669			TH MAT 1889			MAY 1889.			LEBURIPTE PRO PRIL 1690 To 10 May (890)		Tesal	Potal
Heart of the state	Recorpts .	Per milr worked.	Mean mileage worked.	Becoupts.	Per mile worked.	Moan inticage worked.			Mean milmuge worked.	Total receipts.	rer mile worked per week,	1800-91	denmar II Irek-bl.
	Bo	Re		No.	āte,		Ra.	Ba.		Stn.	Ba.	Re.	Ma.
273	61,690	152	275	47,000	178	278	2,35,465	138	273	2,77,687	100	808,308	

[REGISTERED No. 29.]



No. 22 of 1890.

# The Calcutta Gazette.

WEDNESDAY, MAY 28, 1890.

## OFFICIAL PAPERS.

Non-Subscribers to the Garren may receive the Supplieurer separately on payment of Six Rupese per annum if delivered in Calcutta, or Twelve Rupese if sent by Post.

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Statement of Bainfail in Reneal for the week coding Front (8 a.m.), the Shrd of May 1800 Results of the Barometrical and Thermoustrical Obser-	1008	Circular and Bastern Canals for the west ending 84th May 1850 Bastern Bengal State Railway for the month of February	
vations taken at the Meteorological Office, Chow-	1102	Weakly Return of Tracile Receipts on Indian Bailways	1100

#### Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Orope in the different districts of Bengal, as reported to Government, during the week ending the 24th May, 1890.

				Rainfall	
	No.	District an		Station is inches.	
Bi	ZNG.	Ala.			4.
		Western	Districts.		
	1 1	Burdwan	May 24, "		Weather-hot and seasonable with occasional showers. The rain has done much
		Culna Cutwa Banigunge	**	2.09	good. Ass is being sown in some places, and lands are being prepared for somes. More rain wanted, specially in Banigunge. Prices of common rice:—
					8rs. Ch,  6 Rurdwan 15 0 7
	н				Culum 15 0 per rapee.
	١.	Banknora	24, '8	0 2-29	Ranigunge 17 0 ) Weather—seasonable. The rainfall of the week has been very favourable to
	Ľ	Designora	g, are, 4		agricultural operations and to crops on the ground. Common rice sells a
BUDDAN DIVE.		Hirbbum Hampore H	24, 'S	0 0-29 0-58	Weather—cool for the season; afternoons usually cloudy, attended with high wind. Sugarrane planting going on. Common rice selling at from 16 to 20
PAN I	1.	Midnapur	., 24, '8	0 8-42	Good rain throughout the district; though somewhat late for the one crop, ye it is sufficient for ploughing of all lands. Prices of common rice:
PED					Sra.
200		*			Ghatal 10 } per tupee.
	1.	(2 1 to	On the	2.53	Weather-not hot for the time of year. Rain has done much good; ploughing
	5	Hooghly	., 24, '9	1.16	for an commenced. Prices of common rice:
		Jelmostod	* *	2:30	Sudder 18 )
				İ	Serampore 16 por rupes.
		Howrsh	., 24, '9	1-29	Weather-hot; at times cloudy. Seasonable rain which fell will help ploughing
		Central Di			for next crop. Price of common rice 12 seers per rupee.
				1:87	Weather-hot. Sowing of one paddy and jute proceeding. The rain has
	6	24-Pergha.	May 24, '9	101	done much good to the young plants which have already appeared Sugarcane doing well. Prices of common rice stationary.
	7	Nudden	,, 24, '9		Weather-seasonable. Rain during the week beneficial to sowing and to young
DIVE		M. herpore	# T	3·44 0·65	plants. More rain needed.
		Chuadanga	90.	2:36	
RESIDENCE	8	Khoolm Begirhat	, 24. 'b'		Weather-hot: rainy in Sathhira. Cultivation of our going on. Til, the only crop on the ground, has been elightly injured in the Khoolus thans; clowhere
1881		Satabira		3:43	its condition is good.  Weather—cool in the first part of the week; het latterly. Rain good for the
	8	Jessess	., 24, 191	0100	sowings of and, amon, mango, and jute, which are going on brickly. Induce
ı		Magura Namil		2 36 4 63	has been cultivated on the normal area. Harvesting of boro nearly over.
1	10	Hongong	84. '94	1.16	Weather-hat with storms. Rain is much needed, especially in the south of the
	10	Moorsteninked	11 00, 0		district. Sowing of any is retarded.
1	11	Diangepur	,, 34, '90		Weather-setting warm, though raining at intervals. Jute doing well. Bhades
		Thekurgaon		1-07	sowing and sug-reane planting nearly over. Price of rice at Sudder and Thakurgarn stationary.
	12	Rajahahye	**	***	Report not received.
	13	Rungpur Kurigram	., 24, 190	1-12	Weather-outry days with cool nights and frequent showers. Everything promises well. The jute is coming up magnificently; but the young paddy
3		Naiphameri	***	8.17	finds it difficult to keep pace with the abnormal growth of woods.
	14	Bogra	24, '91	0-86	Weather-first half of the week cooler than usual, and showery; second half
MAJERARITE DIVE.		Sherpur Now bhills	***	0:41 2:47	very hot and fine. Jute and our rice seedlings doing well. Land is being ploughed for owner. Common rice selling at 18 seems a rupee.
T T	15	Pubna	,, 24, '91	1.10	Weather-hot in day, but cool at night. The late rain has improved the
E .			3,		condition of the standing crops. Price of rice continues stationary.
	16	Darjooling	,, 24, '9	0.80	Weather-fair. Wheat and barley have been harvested. Bhutts and ohole more progressing favourably, and so also potatoes.
1	19	ulpsporee	24, '9	0.08	Wosther-hot and occasionally cloudy. Jute and blades are still being sown in
					a few places. Prospects satisfactory. Prices stationary
				i	

	No.	District and		Rainfall at sudder Station in inches.	
BE	NGA	L-concluded.			
		Eastern De	istriote.		
	16	Dacca	May 24, '90	0-68	Wrather—very hot and sometimes cloudy. Amus and aus paddy nearly sown Jute and til thriving. The late rain has done much good to the standing crops. Price of common rice 14 to 16 seers per rupes.
DACCA DAVE.	19	Furreedpur Goalundo Madaripore	, 24, '90 	0·48 1·5 0·88	Weather—seasonable. State and prospects of paddy, angarcane, til, and just fuir. Harvesting of jali dhan is still in progress. Price of common rice ranges from 14 to 16 sears per rupee.
DAC	20	Beckergunge		100	Report not received.
	20	Decree & confe	**		a contract and addition
	21	Mymensingb	,, 34, '90	0:80	Weather-very hot. Prospects of crops good. Common rice selling at 12 secret 10 chittacks per rupes.
	18b	Chittagong	,, <b>27</b> , '90	0.88	Weather—hot with passing clouds. Prospects of pasia aus crop good.
CHITTAGONS DAVE.	28	Koakboliy	,, 24, '90	Nil	Weather—warm and sultry. 15 annas on average of one crop reported to have been sown. Reports have been received from certain stations and outposts about the damage to a small extent caused to the young plants by insect called "chenipoka."
2000	24	l'ipperuh	,, 24, '90	0-07	Westner-hot and bright towards close of week. Rice, jute, and til doing well.  Prices stationary.
	25	Chittagong Hill Tracts.	,, 22, '90	Nil	Weather-very bot throughout the week. Sowing in jume continues. Sugar cane progressing. Price of common rice 13 seems 5 chittacks per rupee.
BRI	HAB.	Hill Tipperah	***	803	Report not received.
	86	Patna	M 24, 90	Nil	Weather—bot with high winds at night. Cheese and sugarcone doing well, Mango ripensus and being brought to market in small quantities. Prices rising.
	27	Gya	., 23, '90	Nil	Weather-hot. Prospect of sugarcane and cheens favourable. Prices of food- grains almost stationary.
	28	Shahnbad	,, 34, '90	NII	Weather—seasonable. Prospects of oleras and sugarcane good. Prices stationary.
ALL DIVE	39	Durbhunga	,, 24, '90	1:24	East wind prevailing. Paddy, mang, indico, and cheese greatly benefited by the late rain. Lands are being prepared for bhadoi sowings. Prices remain stationary.
CALM	80	Mozuffeepur Hajipur Sitamarbi	,, 24, '90	0.44 0.11 1.79	Showers throughout the district. Weather appears still unsettled. Rainfall has been beneficial. Cultivation of lands going on. Indigo prospects excellent. Paddy, cheena, mang, and kaun in good condition.
-	81	Sarun	,, 24, '90	Nil	Weather—hot and close; easterly winds. Indigo only fair. Ploughing going on.
-	82	Chumparuu' Bettiali	34, '90	0.78	Weather—bot Rainfall during the present and past weeks has facilitated agricultural operations. Paddy and bhados crops are being sown. Cheese and kedo are growing well. Prices of food-grains almost stationary
1	38	Monghyr Jamui	24, '90	0.14	Weather-very warm. Ploughing for bhador going on. More rain wanted.
	84	Bhagulpur Banka	, 34, '90 	0.17	Wenther close and cloudy with easterly wind. Cultivation of bhadoi crops is being pushed on, and prospects are favourable owing to the late rain.
	85	Scopool Purnean Keshengungu Arrarvah	<b>34,</b> '90	0·40 0·77 1·80	Wenther—getting hat, but mornings and evenings cool. Sugarcane, as well as bhados, jute, and indigo, doing well. More rain wanted.
	38	Maldab Chanchal Shibgunge Gajole	,, 24, '90	0-22 0-48 0-89 0-60	Weather—generally hot and bright. A high west wind followed by a heavy shower of rain on the 23rd. Reaping of boro paddy nearly completed.  Bhados and winter rice sowings going on. Other standing crops thriving well. Common rice ecling at from 13 to 19 seems a rupee.
	37	Sonthal Porghe.  Desghur  Godda  Jantara  Pakom  Rajushal	. 24, '90	0.00 V 0.34 0.63 1.84 0.96 Nil	Weather—cool; constant storms. Ploughing is going on pretty generally, but much more rain is wanted for cultivation in Dooghur, Godds, and Dumks. Sugarcane has been bouedted by the rain.

No.	District and return		Rainfal at Suide Station is inches.	Character of the weather and state and prospects
KISSA.				
/ 88	Custack		•••	Report not received.
89	Pooree Khoorda	May 23,	190 0-64 0-66	Weather—seasonable. The late rain has done much good to the sowing of sarad and beals crops. Miscellaneous crops doing well. Price of common rice stationary.
40 ATOI	Balasore NAGPURE.	,, 34,	90 1:30	Wnather—cool for the time of year. Lands are being cultivated everywhere Number of coolies on relief-works 179.
South	-West Proutier	Agency.		Contract and the second
(41)	Hazaribagh	May 24,	90 NII	Weather—seasonable. Sugarcane and mange doing well. Lands are being ploughed. Rice celling at from 14 to 20 core per rupes.
	Lohardugga Patamow (up Singbacom	,, 24, to 21st) May 24,	0-77	Weather—evasonable. Ploughing and sowing of gore rice continue. Some damage has been caused to the mange fruit at Palamow by storms.  Weather—wet and stormy: most absormal. Paddy is being sown. Sugarcane, cotton, and bardhan thriving. Lac is being planted, but the planting has only just commenced excepting in Shelaipahari, where 16 sums have already been planted. Price of common rice varies from 16 secres per rupes in Manarpore to 24 secres per rupes in Dhalbham. In Chybassa it is calling at
44	Manbboom	<sub>10</sub> 34,	90 0-88	18 seers per rupes.  Weather—but and cloudy. Ploughing going on freely, after the late showers, line selling at from 18 to 24 seers per rupes.

#### Published for general information.

CALCUTTA; REVENUE DEPT., The 27th May, 1890. P. NOLAN, Socy. to the Gort. of Bengal. PRICES-GUERENT (RETAIL) OF FOOD-GEAINS, FIREWOOD AND SALT IN THE HEAD-QUARTER STATION BAZARS OF THE DISTRICTS OF BENGAL DURING THE FORTNIGHT ENDING THE 16TH MAY 1890.

## PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the

	1					QUANTITI	ES PER RUPER IN
		WHEAT.		BARLEY.	Rica, and sout.	RICE, COMMON.	Jowan on Choling. (Sirghum Vulgare.)
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4	Midnapore	13 0 14 0	10 0 15	0 15 0	13 8 14 0 11 0	16 0 17 0 15 8	634 99 649
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B Insulativisions rotal prices of sait 9 sours per rupes.

C In subdivisions rotal prices of sait per rupes are:—Contai 8 soors, Tumbook 8 soors, and Ghatal 10 sours.

C In subdivisions rotal prices of sait per rupes are:—Surampere 10; seers and Johannbad 10 soors.

D In subdivisions rotal prices of sait per rupes are:—Except 9 soors, Hearthat 9 soors, Diamond Harbour (Kulpitat 8 soors, Barruckpere 9 soors 2 chittacks, and Durn-Dum 10 soors.

E In subdivisions rotal prices of sait per rupes are:—Kooshten 10 soors, Meherpore 9 soors, Choondanga 9 soors, and Ranackal 9 soors, and Ranackal 9 soors, Choondanga 9 soors, and Ranackal 9 soors, and Ranack

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# Head-quarter Station Bazars of the Districts of Bengal on the 15th May 1890.

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1 At Thakuremon retail wice of sait 8 seems per super.

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At Thaturgnon retail area of salt per rupes are .- Nattore 9 seem and Nowgong 9 seems a distribution of a linear section of salt per rupes are .- Nattore 9 seems will hammar 9 seems, and Kururam 8 seems.

K In ambdivisions rate is prives of sait per rupes or rupes,

N In the Appere subdivision (at Fullacatta) retail price is and rough a sours, Mooushoogunge 8 sours 14 chittacks, and Naraii

gunge 10 scors.

In subdivisions retail prices of salt por rupse are: -Patualchali 9 scors, Porozopore 9 scors, and Bhola 8 scors.

# PRICES-CURRENT (retail) of Food-grains, Firewood and Salt in the Head-quarter

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30	Pourse	gas	13	18	18	2	11	18		40		-04		100	17	1	17	1	11	13	21	0	21	0	15	12	-	100	100
60	Balasere	900	14		15	0	17	0	18	0	18	0	18	0	18	0	13	0	12	0	18	8	19	0	17	9	100	-00	
	CHOTA M																												
41	iouth-West Pro Hannelbagh	podia 	14		13	8	12	4	18	0	18	0	17	0	9	0	10	0	8	0	16	0	117	0	128	8	100	bee	
			5		Whi		1		04	0	18	0	14	0	34	0	14	0	12	5		Ord 8	116	0	113	8			
44	Loharduggs		1	4	Hed.	0	}12													1	18	8	[18 [20	0	13.6		7		-
63	Singbhoom	001	10	0 0	10		111	0			10	0	16	0	16	0	16	0	12	0	23		22	0		0		604	862
66	Manbhoom	000	1 24		1		1	_					1			_			_		1_		1						

Price of common rice at Jajpore 23 seers 5 chittechs and Kendrapare 23 seers 10 chittacks per rupes.

In subdivisions retail prices of salt per rupes are : - Haigunagi to seem and Hitamarhi 10 seem

CALCUTTA,
The 27th May, 1890.

R At Cox's Basar rotail price of salt 8 seers per rupes.

T In subdivisions retail prices of salt per rupes are: -Buxar 10 seem, Bameram 9] seem, and Bhabuah 9 seems

7				
80	TOLA	HB.		
OR O	OMBU. Oppho-	MAR (Elem	ITA OR	RAGI.
ż	ż.		ż	ė,
Next proceding	Cerresponding turn of last year	Present return.	Next preceding turn.	Corresponding turn of last year
ß Ob.	8. Ob.	S. Ch.	8. Ch.	8. Ch
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49)	214		,	190
100	***	## t	005	-0#
1.4	•••	990	+64	109
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*19	101	***	101	105
			109	

EVAL		KARUR 113.87. 160.)	C	Ole Ole	AM, R S	Ka Una Irio	DAL GA.	4
Present return.	Rest preceding re-	Corresponding re-		Present reture.	Wareholder Alexander	tura.	Cornermodian	
S. Ch.	B Ch.	8, Ch	8.	CF	. 3.	Ch	. 8.	•
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			18	6	18	5	16	
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10.	***		22	0	28	0	20	-
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φ <i>a</i> ν		141	24	8	25	0	16	(
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-00		-	21	7	21	7	18	•
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at the		***	21	0	22	0	23	1
			17	0	.17	0	17	-
***			14	7	15	12	19	1
		**-	13	2	14	7	15	15
			14	0	14	0	14	1
101	***		16	0	16	0	184	
0	50.	121	18	4	12	12	12	
060	001	901	10	0	10	0	io	
	041	604	17	0	17	0	17	

## Station Busars of the Districts of Bengal on the 15th May 1890-(concluded).

												-	,			1		Ho ER	M	11.		0			
	DIAN-CE MAIX Zon Me	m.	C	Har Adja:	N P	EA.		Fini	IW00D	la		8.	ALT.						8	AL/	P.				-
Present return.	Next preceding return.	Corresponding return of tast year,	Present return.	Next preseding	return,	Corresponding return		Next The State of Sta	return, Freezin	Corresponding return of last year,	Prosent return.		Next preceding return.	To proper of the same of the s	of last year.		Present return			Noxt proceding	renirm.		Corresponding return	of last year.	DISTRICTS.
8. Ch	8. Ch	199, Oh	, Oh	8.	Ob., 6	i. Ch	. 8.	Ch./8.	Сь.   В	. Cb.	8. Ob	.  6.	Ch.	9.	Ch	Ro	. A.	P	Ra	A.	P.	Ra Ra	oter . A.	76 J	Districts—concluded.
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000	201	+0-	8 0	8	0	8 0					9 0	9	0	9	0	4	0	0	4	0	0	4	0	0	Noakholly.
900	***		8 6	8	65	9 0			.,	***	9 11	9	11	8	0	4	2	0	4	2	0	4	6	0	Tipperah.
000	044	-110	8 0	8		 8 0	320	4	0 32	0 0	8 0		0	8	0	4		0		8	0		6	-	Chittagong Hill Tracts. Hill Tipperah.
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19 12	21 0	16 0	19 12	21	0 1	8 4	160	0 160	0.16	0 01	0 0	11	0	p	14				3 1	0	3	4	0	9	Durbhunga.
18 0	21 0	16 0	20 0	18	0 2	0 0	180	0 160	0 16	0 0 1	0 0	10	0	10	0	4	0	0	4	0	0	3 3	12	0	Moxufferpore.
19 8	20 0	18 8	20 4	20	0 1	7 8	100	0,160	16	0 +	9 8	9	8	10	0	4	1	0	4	1	P	3	15	0	Sarun.
22 8	22 8	15 8	23 0	28	0 2	0 0	160	160	e 16	0 01	0 0 W	10	0	9	8	3	14	0	3 1	4	0	1	1	0	Chumparur.
21 0	21 0	16 12	28 1	23	1 1	6 12	147	0 147	0 14	7 0	9 12	9	12	10	0	3	14	6	3 1		6	3	13	0	Monghyr.
22 11	22 11	16 12	20 3	20	3 1	8 15	176	12 176	12 17	6 12 1	0 1	10	l	10	1	3	15	6	3 1	5	6	3	13	0	Bhagulpore.
484	444		13 0	16	0	-4+	185	0 130	0		9 0 X	9	0			4	7	0	4	5	0	4	7	1	Purneah.
100	100		***			044	140	0 160	16	0 0	9 0	9	0	9	0	4	2	0	4	0	8	4	0	0	Maldah.
20 0	21 0	17 0	21 0	20	0 2	2 (1	200	4 800	0 30	u u	9 0	9	0	9	0	4	0	0	4	0	0	4	3	0	Southal Pargha. ORISSA.
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500	ber	***	13 2	18	2 1	1 7	80	0 80	0 80	0 1	0 8	11	13	10	8	3	8	0	3	6	0	3	8	0	Pooreo.
100	007		859				160	160	19160	03	U O	110	U	10	0	S	14	0	3	4	0	3	15	0	Balanere.
	22 U	15 0	23 0	129 Big	0 117 c.	7 0	390	0/890	0 39	0	8 0	8	0	8	0	4	4	0 4	4		Soil 4	utl	i-36	out	A NAGPORF.  Frontier Agency lanaribagt.
31 0	30 0	16	19 0 28 0	18 i Sma 27 (	12 11.	>	120	0 120	0 140	0	8 8	8	8	8	0	4 1	0	0 4	10	0	4	1/	5 (	1	ohardugga.
	12 0 32 0		14 0		0 15	0		0 240			8 8 2 2	8		7 8				0 4							lingbhoom.

V At Buttish rotail price of salt 95 seers per rupes.

In subdivisions rotail price of salt 5 seers per rupes.

X At Kishengungs rotail price of salt 5 seers per rupes.

Y At Buttock rotail price of salt 5 seers per rupes.

Z At Govindpore retail price of salt 9 seers per rupes.

Lubished for general information.

# PRICES-CHRRENT (wholesale) of Food-grains, Firewood, and Salt

							W.H	EAT	7.							BABI	.ET						1	Rron	i, 88	ST I	ort	P.					R	OE, C	COM	MON	t.		
Number.	MA	RTS.		Present neturn	Transfer to the second			Nort preceding return.			Corresponding return	or they year.		Present return.			Next preceding return.		Company of the Party of the Par	of last year.			Present return.			Next preceding return.			of tast year.			Present roturn.			Next proceding return.		:	Corresponding neturn of last year.	
	-		1	R	A F		k	Δ.	p.	K.	A.	p.	R		. P.	R	۵	3.	R.		₽.	k	٨.	P	R	. A.	P.	R.	٨.	P.	K	. A.	P.	jk.	. Δ.	₽.	R	- As	2
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9	Semig	unge		2	6	0	2	8	0	2	5	0		ng-s						20-		5	0	0	4	14	0	8	12	0	2	14	0	3	0	0	3	11	
3	Daora	**		3	0	0	3	0	0	3	0	0	2	7	0	2	7	0	1	8	0	8	0	0	2	13	0	3	4	0	2	10	0	2	10	0	2	12	
4	Narait	gungo		* 6										-04			***			201		3	0	0	3	2	0	3	0	0	2	14	0	3	0	0	2	12	
5	Chitta	rong		3 (	B (		3	8	0	8	9	0		4 % 7								3	4	0	3	0	0	4	0	0	2	10	0	2	8	0	3	4	
6	Patna	8.61	-	2 -8		11.	ed. 2 hite	8	0		10	6	}1	11	0	1	9	0	1	12	6	3	16	0	8	15	0	8	16	0	2	4	0	2	5	0	2	15	
7	Balaso	· · · ·	4	2 8	3 (	)	2	8	0	2	4	0	8	0	U	3	0	0	3	0	0	8	0	0	8	0	0	8	4	0	2	0	0	2	0	0	2	1	
8	Pooree	000									160			10 (Ex									140-1		1	101			084		3	14	C	1	14	0	2	4	
9	Custac	k	1 4	10	) (		3	4	0	3	10	0		197						***		8	10	0	8	10	0	8	10	0	2	2	0	2	2	0	9	10	

CALCUTTA,
The 27th May, 1890.

OF 40	BEERS		-		
MARD	A OR I	RAGI. osana.)	ITAL	ni or K. Ian Mil Iapla (fa	Lur.
Present return.	Next preceding return	Corresponding return of last year.	Process rotars.	Next preceding return	Corresponding return of last year.
R.A.P.	R. A.P.	R. a.p.	R. A. P	R. A.P.	R. a.p.
464	***	104	8 10	08 8 0	1 12 3
104	200	000	049	***	+40
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04- /		100	005	200	***
		***	104	400	000
180	160		\$ 0	02 20	3 0 0
***			< 0.0	•••	•
		441	9-	abr	
	***		-04	***	****
		-			

AUND			PR		
typhoi-	inetum doum.	(Penn	oLUM.	on Cu	OWAR Sorgh
Corresponding return of last year.	Next preceding return.	Present return.	Corresponding return of last year.	Nert preceding return.	Present return.
R.a.P.	R.A.P.	R.a.P.	R.A.F.	R. A.P.	R. A.P.
2 12 8	2 8 6	2 2 1	2 1 8	1 10 0	19 7
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<b>9</b> 0 0	***		841		# 6 t
40.	***	,		404	041
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094					***
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the undermentioned Marts of Bengal on the 15th May, 1890.

					æ.	BA							.פנ	WOO	tre	F					A.	PR.	AN	LDJ	C			MAIER.	on l	CORK	AN-	lubi	1	A.	DAS	3172	on:	AY	DAL Cice	16
MARTS.		of last year.	Corresponding return			Want march ding nothing		ב ובסמנו נברודות.	Decree & makeur		of last year.	Corresponding return		ver i preceding recurs.			Present return.			of last year.	Cheminan dia		Next preceding reture.			Present return.		Corresponding return of last year.		Next proceeding roturn.		Present return.		of last year.	Corresponding return		Next Spreading revern.			Present return.
	7.	A. 1	R. 4	-	4. P	₹.	1	A. 1	R.		A. B	R.	-	<b>A.</b> :	R.		A. 1	R.	P.	Α.	R.	P.	. 4.	R	P.	Δ.	k.	R. A. P.		R. A.	2.	R. a.	.	A - P	k.		A. 1	16.	P.	R. A
Calcutta.	3	9	8	B	9 8	3	3	9	3	6	5	0	6	5	0	6	6	0	7	8	3	2	2	2	5	3	2	***	6	1 15	4	9 2	9	4	2	6	1	2	3	2
Serajgunge,	0	13	3 1	0	4 (	3 ]	0	4	8 1			٠		19.0			100			***						194		804		***		***	0	2	8	0	9	2	0	8
Daoca.	0	15	3 1		2 (	1	0	2	4	0	4	0	0	4	0	0	4	0	0	6	2	0	0	3	0	0	3	600		447		***	0	2	2 1	0	2	2 1	0	19
Naraingung	0	12	8 1	0	2 (	3 1	0	2	3 1	0	.0	0 1	0	8	0	0	8	0	0	2	8	0	0	8	0	8	3	**4		***		1 + 0	0	0	3	0	2	3	(	10
Chittagong.	0	0	4	0	2 (	3 ]	0	2	3 :	0	7	0	4	5	0	4	5	0		***			80-1			***		120		***			0	2	8	0	2	3	0	
Patna.	3	12	3 1	0	4 (	8 1				0	5	0	0	5	0	0	6	0	6	12	1	0	11	1	6	12	1			***		***	0	4	1 :	0	11	1	6	11
Batasore,	0	15	3 1	0	4 (	8 3	0	14	3	6	4	0	6	4	0	6	4	0		***			ano			***		-01				400	0	2	2 :	0	2	2	0	1 12
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Cuttack.	0	7	4	0	7	4	0	7	4	0	8	0	0	8	0	0	8	0	0	0	9	0	0	2	0	2	2	004	0	e90		400	0	0	2	0,	5	2	0	10

Published for general information.

P. NOLAN, Secy. to the Goot. of Bengal.

#### Meteorological Report of the Province of Benga

											87	FATIU	N ORS	HRV/	TION	us.			
					All	PRESE	nn.	Wil	170.					Tun	PREAT	van.			
Diet	7210	P.		Representative station.	Mean barometric beight, 8 A.M.	Wean reduced to	Vanation from mean.	therming direction.	Mean wind ve-	Highest during week.		Dele	Lowest during urek.		Date.	Mean maximum temperature.	Mean minimum lemporature of wrest.	Mean daily tem- perature of	Variation from
Poorue		000	{	Pooree (supalpore Palse Point	10:720 20:720 20:720	29-741 29-741 29-741	+1098	RW Southerly	8/0 455 319	90:7 50:2 91:3	20-31 20-20 22ud		78'1 70'8 73'1	17th 21st 19th	May	2918 2817 3017	81:0 70:2 78:0	85 6 56 2 56 6	-110 -010
Cuttack		694	4.01	Cuttack	29-660	20 740	+ 1025	SW B	96 939*7	10819	21st 21st	.,	73'8 73'8	17th Stat	**	1027	79 d 78 8	DL 13 64'8	+015
Bulasors South-West South 34-Pe	. Mid	nap	ore }	Saugor Island	29 710	29:743	+*017	sw	384	94%	19th		70.0	19th	41	94 8	77'6	66'1	-11
Midnapore	to B me	148		Midnapore	29.502	29*745	+ '030	8	311/7	99:3	list		68.3	19th		9316	76.2	82.8	-5.6
te-Pergunn Howrsh Hooghly	ahs	000	:::}	Calcutta	20-730	29 753	+ .021	88W	123	90'8	2140		70.7	22nd	4.0	93'6	78-8	84'5	-87
Burdwan		00%	**	Burdwan	29.635	29.715	+ 017	EAS	93-6	100.7	flat		72'4	\$2nd	**	96 9	76 8	80'8	-10
Bankoora		000	14-	Bankoora	291424	29.728	+ 060	B	130-3	1081	Stat	**	67.6	Band	21	10617	75'1	8819	-
Beechheem West Burds	1636	000	}	Rencogungo	29.419	39'753	+ '046	SE	10617	108:0	19th &	May	75-9	194h	**	BIB15	77:0	6718	-81
Moorebrdat	140	+00	001	Berhampere	29.091	20:755	+ 040	E	104%	9017	Elnt	99	72'8	2141		94.1	76'4	86'4	-2"
Nuddra		100	6-7	Krishnaghur	29:711	19 749	+ '047	ESB	142'5	\$0.3	20 th.	May	70.9	22nd	1.0	97.3	76'6	88.0	-81
L'hoolna		944 944	:::}	Јевого	29:731	29 768	+ '030	88%	(III/18	8108	20th,	May	7616	17th,	May	14 B	76 0	847	-2"
Chittagong		000	*-	Chittagong	29 703	291793	+ '015	BE	7311	94'2	23rd		74'0	176h		9014	77'1	63.7	+01
Chittegong	en '	Trac	ta	Demogrit		-					rations								
Hack organg	10	0 10-0	***	Harriss	29-788	29:7%	+ 1037	Calm	93:0	DS'0	eand,	M.y	73'0	17th	**	9019	77:1	6410	-11
Noakholly		994	**	Noakholly	29 780	191790	+ '046	Calm &	70-9	98:0	20th	May	72.0	17th	9.0	58.7	75'8	62.3	-11
Parrendpor		0.0	- 14	Furredpore	29 756	<b>29177</b> 5	+ '054	ESE	92.3	921	zoth.	Thi	7017	17th	**	9011	74 5	88.5	-31
Ducca		461	**	Commillab	29:750	<b>19</b> 786	+ '034	SE	91%	9218	£3rd	May	71 3	178h	D 0	W 5	78.0	61216	-1
Commillab Mymensing		- 40		My mensungh	29·73A	207707	+ '036	ENB	8015	90:7	Rand	10	60 0	17th		6714	76.7	61.0	-0
Bogre		107		Bogra						Obsert	vatio da	incom	ph to.						
Pubne		000	***	Serajgunge	29'719	291700	+ 030	E	83314	91.8	2-rd		7013	90th	1.0	89/0	74'2	81.0	-31
Rajohahyo		100		Rampere Resu	29 695	291766	+1045	SE & SSE	8015	93 8	23rd	••	7617	flat		90.3	747	82.0	-3
Maldah		607	041	Maidab	25 G83	291764	+1279	E	62.2	97.7	#3rd	**	73*5	17th		57.0	7610	92.8	7(:)
Dinagepore		100	221	Вимиерого	23/1849	29:770	+1083	E	41'4	92:1	23rd	**	GUIG	Tint	10	6813	7611	81'2	-11
Rungpore		100	40.	Lungpore	29 076	201796	+ 1049	B	56'1	91'3	2Znd	**	68 2	17th	13	6816	72'3	80'6	-0.
Julpigores Cooch Behal			}	Julpigoree	\$5.203	20783	+1061	1	24918	91.4	Brand.	May	66.1	17th	11	86513	7019	79'6	01
Durjeuting II	all T	r.fot	a	Darpooling	22 Wh	Q.P.	-	ENE	80"9	6316	23rd	**	69 1	find	91	89 1	91.0	63.1	-3-
Purneah North Bham			- }	Parnesh	23.6m	10-777	+1052	NE, ESE	91.0	9517	23ed	1.0	70'9	17th,	19th	D1 5	9610	6315	- 2
Mossifierpor		10.0	10.	Mognifierpore	29 '550	19"731	-	ESE	80615	8528	22nd	+ 0	6717	176h	Maj	MING	74'0	8218	_
Durbhunga		nd-r		Durbbunga	39-591	29 759	+ 1046	RSE	153'0	97 4	sard		0.00	-	-	p3'v	440		-
Chumparu n				Motihari	201835	29"764	+ 069	ENE	184.9	2,06	23rd	**	66.9	lyth	4,	93 2	73'4	82.2	-5
derab			10	Chupre .	2915:05	201720	+ '632	B	194'6	100.3	Bint		7117	19th	4.0	1772	7616	11519	-3
Shahabad		**	{	lwhree* luxer Arrab	201354 20 602 20 519	201713 201713	+ 1043	E, ENE E& ENE	144'6 196'3 147'9	10714 144 U 10414	23 td 23 rd . 3 rd	50	76 0 76 B	17th 10th 19th	0.0	104°5 101°3 00°3	2010 2010 2810	92'7 19 1 89 0	+0
Gyn		0-7		Gya .	197845	2V1716	+1041	E	113'8	100'6	Sard	**	1918	17th	4,	10312	0118	92'3	-0
Patne .	~			Bankspore .	25-2-06	29:724	+ '094	E	186'3	102 0	#3rd		71.7	196h	24	9u e	78-1	8817	-4
South Bhage Moughyr	tipor		::}	Bhaguipore	29'578	89-741	+1054	B	106'3	96'3	sard	**	7210	ivth	-	92'6	7816	86 5	-3
Southal Perg	ua a		24	Doomka	S9°241	29-737	+1940	858	17910	0v17	Särd	11	76's	\$:md	**	96'1	76'8	66.9	-8
Humribagh		· Pr		Basaribagh	27:735	20-718	+ '011	South- Westerly	281 4	105.0	22m4	**	71'3	176b	84	97 0	74'9	80:3	-1
ishardagga Manthoo			::)	Ranchee	97-000	29 726	+ '0111	SW, Calm	114'9	100'0	93nd,	23rd May	7016	17th	2.0	95'4	7816	8610	-8
Singhhoom		-		Obyebana	281968	20-723	+ 1080	Cala	652	104'3	Sist	,,	78-7	17th	ts	9618	77'8	87'8	
				Hibnagur	20"402	27.819	+ '021	Calm &	-	98'6	22nd		6814	176h	89	10-7	73:0	8116	+0
å.nen.zn	***		11	Dhubis	99°674	59 798	+ 1084	B	105'4	9018	fand	14	66 h	176h	11	119.1	7314	797	-1
			1	Bilshar	20702	29.000	+1026	Calm	-	88'5	Exad	94	8100	17th	**	99" 6	78'6	81'7	-0

Mean for five days.

Mean for five days.

The homostic of the chrosopheron expressed at pressure and temperature are the utilimetical average or means of the reading during the same period for the means the temperature of the reading at presentation of the reading the chrosopheron expressed at percentage, asturated air being presented by 100. A clear sky is denoted by wand an overrant sky by 10. The master at the number of average of the rentral in that the christian for the reading the period in question during the period in the during the period in the christian for the reading in returns divided by the number of stations. A round say is one on which at least number such as it much fair.

for the week ending Friday, the 23rd of May 1890.

1	20	1 00							HRVATIO						
Average humidity at 8 A.M.	arnoan week.	· 在 ·	E)79. 1	THE .				RAII	IVALL.						
	and and	Week Hation.	JE	Since lat of month. Since 15th May 1800.		Representative	District.								
	Average cloud at 8 4.M. for	Rainfall of observings	Mean for district,	Normal mean.	Mean for district.	Northal meta.	Variation.	Mean for district.	Normal ness.	Variation.	Average nur of rainy da	Normal nursi of rainty da			
84 60 73	3'7 1'1 3'9	0°64 0°72 1°17	0.60	6182	0100	1196	-3.09	0'87	ends	+0'21	110	17	Pooree Gopalpore Falm: Point	Pagree	800 ee
65	416	0,18		0164		8:18			0'71		1	113	Cuttack	Cuttack	100 40
20	810	0187		6187	1	3195			1108	1		1.6	Balasore	Balaeore	100 00
79	816	8'79	4*58	0.00	8*88	3.30	+9'44	5*88	0186	+4'88	2/3	1'6	Sager Island	South 34-Perg	idnapo: unnabi
31	813	2165	2150	0167	4'47	8.90	+0187	4'16	0.74	+3'41	8*0	1.1	Midnapore	Midnapore	100 g
70	8.9	1°87	1*67	0.71	3.50	597	-0'77	2'77	6198	+1'84	8.0	1.6	Calcutte .	24-Pergunnah Howrah Hooghly	200 21
73	8:3	1.76	3164	0180	1*96	8:30	-1'41	1:65	6:97	+0.69	8'0	1.8	Burdwan	Burdwan	100 01
96	9"1	8127	1168	0146	3186	\$140	-0180	1'84	0.41	+1.13	218	1.1	Hankoora	Bankoora	100 94
73	21	0180	0.21	0.93	9'61	9'17	-1'06	0.21	0.33	→0.53	8.0	1.6	Renougange	Wost Burdw	194 64
84	817	0187	1'33	0180	2183	3114	-0.28	1'80	1.08	+0.83	115	17	Herhampore	Moorshedabs	d
37	21	0'84	1"75	1*04	2165	6*07	-1.51	2 14	1:94	+0190	1218	1'9	Krishnachur	Nudden	-
87	4:0	0122	1'82	0193	3'62	4.70	-1'1s	2107	1.10	+9'8%	3'3	1.7	Jeanore	S Jessors Khosles	440 pt
79	4.9	0.19	u180	1 66	2.19	6:48	-472	1 73	213	-0.40	1'8	119	Chittagong	Chittagong	400 80
10				1119		7'04			1.78			2.9	Demagiri	Chittagong	e
12	2'0	1.09	1'86	13.	1'53	6*81	-2°7a	2:33	1'53	+0'70	2.0	21	Barrien!	Backerguage	
63	שיט	211	0110	3151	4:19	7:58	-8156	1155	1:90	-0785	018	2'3	Noakholiy	Noakholly	
53	27	9.40	0146	1120	8:40	9.81	-2'41	1 23	1'54	~9°83	5.0	3.3	Furreedpore	Furreedpore	
10	616	0.96	U142	0.30	428	6 16	-1168	1'68	1134	+ 0*82	1.8	2:0	1/800a	,. Dacon	*** ,
0.	3.6	Mil		1'80		7-36			1168			21	Commillab	Tipperals	****
36	4.0	0.96	1.90	1169	\$186	G-W3	-0.92	2.90	2:17	4-9-42	าช	8.8	Mymonsungh	Uymensingi	٠.,
	1.0		0'96	1 31	6137	4*84	-0'46	3/31	1'61	+1701	\$*0	3.0	Bogra	Bogra	662
=	119	1 91	0178	1 24	3:87	4:90 3:54	+0.03	3:63 8:63	1.62	+1120	3.0	28	Sorajgungo	, Pubna	****
79	17	0,42	υ'85	1.15	3.23	2199	+0 84	1,15	1:83	-0'21	1.3	1.7	Rampore Besui	Matdut	100 4
74	10	0.00	0.29	1194	4'87	3.34	+1'63	1161	1.31	+ 0130	1'8	178	Dinagépore	Dinagepore	***
82	1.0	1'26	1*08	2*61	6 22	7:19	-0'27	2'67	3:35	<b>→</b> 0°88	31.0	2.9	Rangpore	Rungpore	10 .
98	17	6103	6.00	2700	4198	8.17	-2.18	0.90	3162	+296	216	3.6		Julpigoree	110 0
98	813	0.74	9780	8'81	4188	6:84	-3:20	1'58	2:74	-1'16		3.6			
								1:27			4.0		Darjeoling	Darjeeling H	
81	8.7	0.40	1 64	0.82	\$188	3109	-0'24		1118	+0.00	8:4	1.1	Parness	North Bhagu	
78	1 0'8	0.99	0.19	0.33	1'96	3 61	6'37	1:10	0180	+0.08	1'7	0.0		Mosufferpore	102 m
78	13	1.88	1106	0.41	1.78	1*60	+0*38	1.85	0'56	+0.22	2.0	07			100 11
73	014	60.09	1'81	0,30	9:48	3161	-0.61	Nil	0'87	-0.92	0.0	0.2	Motihari	Sarun	PPR 60
42	0.8	Nil	0401										Dehree		100 00
35 04	1'7	Nil Nil	2008	0,19	6190	6164	0'44	0106	0.19	-0.11	0.4	916	Ruzur Arrah		***
60	6%	Mil	0.12	0 68	0.23	1.13	-0.60	0.82	9.71	-0.46	0.8	0.0	Gya	Gya	100 01
00	0.0	0.9J	600	0.20	1198	1'27	-0101	0.19	0161	≈ 0.4Q	018	818	Bankspore	Patna	450 00
lin	1.7	0197	0133	0,61	7,00	1'69	+0.10	u*81	0.28	-0.34	0.0	urp	Bhaguipore	South Bhagui Mousayr	pore
90	810	0:32	0'80	0169	1'95	2'27	-0.20	1'04	0107	+0'17	1.2	1:1	Doomks	Southal Pergu	
153	416	0.09	0.10	0756	0'80	1 125	0'73	4.80	0.82	-0.15	0.11,	018	Hasnribagh	Hannibagh	*** **
<b>(4)</b>	3.4	0.40	0106 0118	0.00	1*29	1°13 1°07	+0.10	0181 0187	0.27	+0.30	9°0 1°0	0°9 1°6	Ranoni	Lebardugga Munbhoom	000 000 <sub>100</sub> 10
70	316	1:18	17ge	0'78	8179	2163	+1'10	2:56	1 02	+1'84	10	2.1	Chyebness	Singbboom	*** **
16	0.4	0.43											Sibengar	]	
1.7	41	0.00									٠		Dhubri	Азмаси	P9+ ++
186	0.1	0.90											Sitcher	)	

ten years. The variations are seguifies when the mean for the week is less than the corresponding normal mech, and positive when greater, dense in the part of the sake covered, the whenever bound entured by 10. Under the head District observations of rainfall the normal means are the purposents the purpose of the rainfall return received, in the district, are the purpose of the conditional return received, in the district, are the purpose of the conditional return received.

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890.

					BAIRPA		do .	,			TAL		Average	Total rain-	Averure
Meteorological division.	District.	Station.	Saturday, 1715 May.	Sunday, 18th May.	Menday, 19th May.	Tuesday, 38th	Wednesday.	Thursday.	Friday, 23rd May.	Number of	Rainfall of week.	Total rain- fall since tat of month.	total rain- fail from lat of month.	Total rate- fall sinos 18th May 1890,	reinfall from 18th May to date,
Ontoba 200	Poereo	Poorve Khurdah Baupur False Point Gov Sutpars Papis	0.80	0.43	1-17	400 cms 400 c 700	040000 040400 440404		1'47	1 1 1	0'90 1'93 0'23 1'17	1:44 1:48 0:31 1:30	1'74 2'43 1'32 2'25 ? ?	1*66 1*93 6*25 1*38	0103 1103 0116 0103
	Cuttack	Jagatsingpore Banki Cuttack Kendrapara Jajpere Dharmsale Balipore	1.62	0.30	0783	**************************************	0°02	1.00	7.69 0.20 9.80	\$6.02 mg	0-23 2-50 4-15	0188 3193 8190	9:06 1:02 9:34 2:45 2:45 3:74	9.55 9.51 9.53	0150 0157 6105 973 9178
	Halasoro	Chandbali Buuddruok Sorah Balasora Jellasora Baripedah	0'64	0.52	0°26 0°55 0°50 0°03 1°90	200 000 200 000 200 000	0180 0120 0134	0.30	0137 010 1750 0101	8 8	1°13 1°50 2°00 1°90 0°19	3:11 2:07 5:00 2:00	3 114 3 154 3 134 5 137 2 32	2:31 2:47 3:05 1:32 6:57	0°70 1°66 1°74 0°77 0°91 0°76
Beyoal.	Midmaporo	Sauger Island Tuplook Midnapore Ghatial Kubrahaty Gerbatta	0 70	**************************************	1'08 2'08 1'70 1'00 0'26 0'88 0'16	**************************************	3°19 0°13 0°14 0°13 0°49 0°54	2°18 1°68 2°60 0°15 1°65 0°00		8 8 8 8	8:49 4:80 2:43 0:03 2:73 0:79	61941 6194 6150 81194 9192 6165 3184	3:43 3:31 3:41 4:06 3:97	6169 6180 6130 8164 8 67 6180 1136	0'82 1'04 9 73 0'52 0'57
	26-Pergunnalu	Diamond Har- bour Ouning Town Alspore Jail Harrackpore Dum-Dum Baraset	0°08 0°03 0°03	0'88	070 0781 0783 0785	100	1°25 0°34 0°4 0°4 0°19	1'88 1'98 1'90 0'93 8'76 0'47	#\$V#000 #################################	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3:38 0:24 1:20 1:11 1:09 7:50 1:94	6714 1753 3729 5742 1754 8793	3'61 † 3'68 8'68 4'01 4'45 4 33	5°05 0°90 8°75 2°21 2°22 3°76 4°03	070 P 070 004 074 115
	Howrah	Buseerhat Howrah Mehesreka	0*27	100 up 1	0'01	******	0°35 0°49	1.63	\$1000 \$1000	* 2	1.88	2:30	3'7b 4'63	3.1h 3.80	16.0
	Hooghly	Serampore Elooghly Jehanabad	0:50	21/***	0108 1188 1187	*******	0.13	1°10 0°77 0'60	####### ##############################	2 3	1:16 9:11 2:39	8153 2110 3133	8/57 4/14 3 48	2°26 2'106 3'46	0164 o 0197 Thirt
	Burdwan	Culpa Burdwap Cutwa Rancegunge	0°07 0°13	### 	077	0.20	0/85 0/82 1/37	1'05 1'62 0'03		5 2 2 1	1783 1776 1763 0750 0749	1°84 1 97 2°01 0°50	3149 315 3 53 9100 7	1153 1179 1163 0190 0168	0%4 0%0 1 % 0%3
\$	Hamkoors	Bankoora	e0:	0/83	0.49 0.59 0.42 0.61 0.10 1.00 0.10 1.71 0.16	202 000 001 11 000 11 000 11	0°15 0°15 0°30	1'81 0'73 0'11 1'62 1'30 0 10 0'27	0'86	0 4 23 44 92 24 22 24 22	2°87 9°55 0°55 0°61 1°72 2°65 0°60 1°95 2°67	2"A3 2"TH 0"53 1"51 1 196 8 190 1 195 2 106	8184 3 17 1 113 2 116 1	2'52 2'78 0'55 1'51 1'90 7'90 1'89 1'89	6.77 0.70 0.31 0.93
	Searbhdym	Sonamakhi  Bh. Soory  Hetampore  Rampore liant  Bolpore	0194	00.304 P00314	0°13 0°16 0°77	400000 00000	0.35 0.35 0.35 0.39 0.39 0.19	0°03	0'80	3 1 2 3 2	1190 0196 0196 0197 1187 0190	0184 0184 0184 0186 1 87 1 83	2:34 1 *3 2:44 ?	0-20 0-93 6-88 1-57 0-90	0.14 0.40 0.81
	Haddes	Ranaghat Kintnaghur Choosdanga Manarpore Kooshtea	1'90 0'10 0'16	- 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1 ( 1	6110 6110	00×84	0°21 0°25 1°05 0°55 2°85	0.24	+00 or -++00 or -+0 or -+0 or 00 or -+0 or 00 or	30000	1:47 0:84 2:80 0:65 8:44	1 197 2 45 31 39 1 101 5 20	31%0 4166 6 93 1165 6106	1167 2138 3159 0188 3160	1 11 1 14 1 14 1 14 1
	Khoolus	Hatchira Hagerial Khowsia Nakiping Rampal	0°10 0°12 0°67	0185 u180	1'80	1'89	0.19 0.19	073	**************************************	2 2	2°33 0°50 0°27 2°30	4'16 1'55 3'51 2'14	4°90 4°90 478 1	8.77 0 us 8.04 2.71	0.82 1.36 0.00 6.
	Jamara	Namil Jessore Jhenidah Magoorah Bongong	**************************************	0.80	0148 9186	24000 24000 400.72 480-44 600.60	1 0) 0 72 0 0 1 1 34	0'31	-61900 -6-1- -61061 -60000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	8'14 0'23 0'34 1'78 1'16	8:87 4:20 8:32 6:24 1:30	5 28 5 10 4 36 5 39 3 76	4*63 1 104 0 34 2*36 1 30	1:31 1:30 1:30 0:91
	V corebode bed	Kandi Borhampore Lalingh Aximgunge Jungspore Lalgola Jiagunge Akarlmaj Patkabari	10100 111100 111100 101100 101100 101100	- Mares - Mare	0116	000 000 000 000 000 000 000 000 000 00	0725 0725 0733 1100 0744 1715 0784 1763	0107 	41000 -4173 -4000	2 2 2 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	0°32 0°37 0°63 1°00 0°36 4°15 0°88 1°27 Nil	2'00 1'63 1'80 5'25 6'81 6 17 3 54 1'28 1'80	2:93 3:12 3:24 2:94 2:57 3:51 P	0'38 0 87 0 91 8 45 0'35 6 77 3 45 2 12	0-77 1-18 1-14 1-15 1-17 0-63 1-75 P
RADY RESCAL	Chittagong	Cor's Basar Chittogong Kutubdia Sathanya	1.07	000000	1'30	25,000	0.10	000000	000 000 000 000	3 2 2011	1,90 0,10 0,90	2'00 1'46 1'70 3'80	7:40 0:31 1 1	8.78 0.71 1.65	1.48 2.03
	Bull Tracts.	Patoskhally	******	.0000	1.74	******	105	000000		1 2	3,03 0,08	2°AS 2°545	6°80 8°80	8.16 196.8 90.8	1.46 1.26
		littoin	0.10	* 1000	0,40	******	0°36	4+03+1	******	3	176	#163 E188	5 41 5 17	1'08	ju

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890 -contd.

					R	AINFALI	à-			TOTAL.			Average		Average
pivision.	District.	Station.	Carorday, 17th May.	Surday, 18th	Monday, 19th May.	Tureday, 20th	Wednesday, Elst May.	Thursday, Mad	Priday, 23rd	Number of ramy days.	Rainfall of week.	Total rain- fall since lat of month.	total rain- fall from tat of month.	Total rain- fall alneo 18th May 1890.	from 18th May to date.
THE RESEAL		Gourneddi Baupkal	1'11	0.90	0.79	*****	0120	00121-	*****	8	2:16	3108	P	27.82	2 P
	Neakholly	Nonkhally Fauny Harishpore Rampanj	0°20 0 45	0.84	******	******	100111	******	###### ###### ## 16+	Nil 1 1	Nil 0:30 0:45 0:34	4'49 8 70 6'76 6'73	6-74 8 33	1°10 2°50 1°50 3°08	216 216 2
	Furreedpore	Madaripore Purrendpore Goalunge	0.000	0.20	0.50	0.18	0'59		0.03	1 8	0°20 0°40 0°65	2103 4164 3173	8*61 5*57 5*53	1°17 0°90 1°62	1:6 1:0 1:3
	Dacon	Munchigongo Paces Naraingungo Munickguise Joydobpore	000000 00000 00000	01.201 01.201 05.201 00.200	0.13	113	0.67 0.40 0.40 0.25 0.25	000.000 000.000 000.000	00.000 00.000 00.000	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6°07 0'02 0'07 1'12 1'07	2794 6764 4704 3743 6723	6:02 6:10 5:03 6:48	1°60 1°95 1°39 3°12 2°31	1 '0 1 '0 1 '0
	Hill Tipperah Tipperah	Agartola	011100 64400 071111 000114	0'80	0.21	0158 0131 0147	0.07	79 484 68 419 474 21	###### ###### ######	1 2 1	6:07 0:50 0:35 0:47	8:67 8:10 7:02 6:8	7:00 7:01 6:57 7:87	1700 1710 1702 671	R 65 A 22 2 2 2 2 2 2
		Nasirnayar Daudkandi Kusba Lakekam	******	8:4:#4 84:: -	47	0°10 0°07	******	*****	000 1	1	0'10	3150 6789	3	1'21	7
	Мунеопіпді	Kinhoreguese Aun (Tangail) Mymeustuch Jamalpore Natre kenn Subornakhally Durgapore Sherepore Town Dogangany	**************************************	### - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	010/3	1°75 0°17 0°57 1°42 1°54 0°59	0°60 1°10 0°30 0°30		01.0	1 2 2 2 Nil 2	171 057 080 167 172 Nil 100 £56	7:05 6 53 6 36 6 36 5 56 5 56 5 56 6 32	7138 5 0 s 7 10 4 6 1 4 u 7 7 7 7 1	3706 374 1 NG 2749 8724 2 445 1 153 2 855	3°1 1°3 2°3 2°7 9°1
MONTR BUSOAL	Pabas	Pubna	###### #######	474101	0196	0.47	0°44 0°11	100.00	120204	9	1°10 0 %	8194 517	4157 5123	1 '63 3 '64	11
	Bogre	Aherepore Nowkhilia liogra Panchbibi .	000 +-	******	0°49	1'31 0'11 0'70	0°31 0°26 0°30		#14.m## ##################################	3 2	0°31 2°01 0.41 6°86	2:60 7:46 2:52 4:87	8108 4128 5150 4143	1158 811 1160 2165	14 15 25
	Rajohakyo	Beauleah Nattore Navyaon Laipure	400 a a a a a a a a a a a a a a a a a a	0.29	1:00	6197	0110 0115	BBD	40 480 64 487 860 - 00 - 10	Nii Nii	1'9 - 9 27 Nil 1'26 Nil	2153 3 85 4155 3156 1168	37: 4:71 2:22	2°82 3°34 2°95 1°56 Nil	1.
	Maldoh	Maidah Chanobal Gajal	04*264 601-11 201-29	*****	0'75 0'36	0.43	0.55 0.10		***	1 2 1 2	0.49	3:09 3:3: 2:17 5:20	2.67 3.41	3 '62 0 dz 1 '35 4 '38	9.
	Dinagepore	Mehadebpore Churamon Raigungo Dinagopore Ralourathat Thakoorga	001111 001111 001111 11111111111111111	*****	0'31	0'54 0'15 0'35	0'31		0 11	Nil	0°50 Nil 0°54 0°15 0°37 1°07	3°10 7°43 8°01 0°63 4°68 7°65	3°16 2°13 4°44 4 67 1°83	Nil 0185 1135 3139 242 1136	0 0 11 2 01
	Rungpore	Bhawanigunge (Gyabanda). Rungpere Kurugram Hagdogra (Nilphamari).		117701 117701 -11701 -11707	0.75	0.10 0.85	0180 0182 0151	6.45 6.18 6.19	0'11	4 5 5 5	0.00 1°19 1°45 3°17	7170 7173 5153 6101	6°83 9°07 7°27	1°87 1°86 136 4°19	31 31 41
	Julpigoree	Julpinorne Alipore Doonr Pallacotts Debiganj Uhagatpore	1.80	0 10- 0-11- 0-11- 0-11- 0-11-	0.50	0'07	0161 0168 0150 0142	1705	0.08	2 1 Nil 2	0°08 0°03 Nil 1°54 1°27	13°19 4753 4720 3°03 7°65 7°66 7°09	747	6186 6131 1116 0196 6195 8116	31
	Oceah Behar Darjesling Hill.	(Naprakatte). Dinhasta Cooch Behar. Mickilgunze. Matabhanga. Buna Billiguri Darjanting	0°04	0.08	0°07 0°14	0.03 0.03 0.03 0.03 0.05	0°46 0°18 6°36 0°16 0°38	0.43	0.25	22 24 4 4 10 6 23	1 13 0°26 0 20 1°03 0°35 0°35 1 03	8'26 2'83 7'70 6'74 8'12 8'71 4 21 3'17	8'41 10'25 6'95 7'72 13'47 4'98 6'98	1°30 0°35 1°18 0°19 2°42 1°35 1°39	6': 3': 3': 1':
ен Ваназ	Purnosh	Kursoong Kursoong Kissengunge Arraresh Purnesh Gondward Balarasspore	0.04	0.03	0 25 0 95 0 95	0 30	0.19	0 07	,16°08	3 5 2	0174 0159 2118 0140 0165	3:35 3:10 4:10 2:73	8-82 3-83 2-65 7	3*59 0*77 2*22 1*01 0*65	114 114 113 2
	North Shagul-	Matteri Kalenpani Maddaporo Soopeol Irrotabgani	******* ***		3773 0 69 0751	0.70	******	100500 224400 2011)	0.30	1 2	0190 1155 61111 4113	4°27 9°13 1°41 1°08	2:79	6.00 1.00 0.34	0
	Durbhungs	Tajpore Inchiunga Bathuban Rahera Loshers	00+++-	0.03	0'75 1'21 1'80	6:01	0.08	9932 4 9932 4 997 45 968993	011000 011000 011000 011000 011000	S S Nil	0:33 1:24 1:53 1:84	1°13 2°25 3°15 1°60 1°70	1'46 3'5 8'00	0°33 1°48 1°46 1°36	018 016 017
	Mosufferpore	Aitamarhi Mosufterpore Haitpore Pape Mahus Mahus Paperi	03.000 03.000 03.000 03.000	00-000 00-100 000-100 000-100 01-1-1	0°58 0°10	0.09	1126	### ###	******	301 301	1:70 0:44 0:11 2:11 1:43 u:61	2°49 0°161 2°47 1°00 1°70 3°15 1°32	1 194 1 16 2 15 2	1.70 0.44 1.24 N.11 N.11 1.55 0.91	019 019

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 23rd of May 1890-concid.

	District.				1	AIWPAL	In.		TOTAL.						
Meteorological		Mation.	, 171ь	18th	1943	andh	day, y.	popp.	E	days.	Jo	Total rain- tall muos	Average total rain- fail from	Total rain-	Average ratufall from 18th
			Baturday, May.	Sanday.	Monday.	Tuesday.	Wednesda	Thursday.	Priday.	Number rainy de	Rainfall wook.	mouth.	lst of mouth.	1800.	May to date.
Monra Bruan —concluded.	thumperen	Notihuri Bettinh Begsha Burhurus	151500 450100 02444	000	1-70 0-58	01.100	0.18	000 000 00,	**************************************	Nii Nii	1°70 0°73 Nil 0°13	1:70 1:46 0:12 1:07	1180 1191 9	1.70 0.73 Nii 0.13	0.90
	Sarup	Gopalguage	020100	*****	******	80×1-1	100000	******	******	Nil Nil Nil	Nii Nii	0'14	1°76 1°07	Nil Nil Nil	0°80 0'20
SOUTH BEEAR	Shahabad	Ohuprah Buxar Dehrne Bhabooah Sameram Arrah Mehaniah	0.10	000000 000000 00000 00000 00000	######################################	g '02		040.000 040.000 040.000 100.000	0.50	Nil Nil Nil	Nil Nil Nil 0:29 0:13	0°13 9°45 Nii Nii 9°37 0°39	0'84 0'46 0'34 0'78 0'77 0'87	NII NII NII O-19 O-12	0.82 0.00 0.00 0.00 0.00
	Rya	Aurungabad  Gya Nowadah Johanabud Arwal Daudnapar Sherryhati Rajani: PakriBorassan	000000 000000 000000 000000 000000 00000		000000 00000 00000 00000 00000 00000 0000	# 1	- 1000 - 01154 400112 - 1000 1000 1000 1000 1000 1000 1000 10	0.61	550 310 001000 001000 001000 001000 001000	NII NII NII NII NII NII	NII NII O'SI O'SI NII NII	NII 0:90 0:70 0:40 0:47 NII NII NII	1.06 1.00 1.38 6.48	NO O'SI NO O'SI NO NO NO NO NO NO NO NO NO NO NO NO NO	One Dine Dine Dine Dine Dine Dine Dine Di
	Fatne	Patna Brospore Beliar Barth Bickross Hills:	0°06	*80 *00	000 004 000 000 04 1,0000	0785	0.00 04	200 ac.	0.03	NH Nil NH NH	O'81 Nil Nil Nil O'02 Nil	3'40 1'31 Nil 1'23 0'03 Nil	1.05 0.78 1.53 1.68	0°57 NII NII 0°03 MII	0"65 0"23 0"75 0"65
	Moughy:	Begooderal Monshyr Jamus Gogrt Sheilpure	P40000 O10001 VP2000	1120	991   988   544	000104 00000 00111	000 W0 237 - 00 177 - 00	000 000 000 00	-0.000 -0.000 -0.000	Nil Nil	Nii 1.11 Nii	1°48 3°10 0°14 4°61 Nul	1:86 1:66 1:40	0'41 1'52 0'14 1'17 Nil	673 674 6103
	South Bhegul pore	Hanguipore Hanka Kalgona Bongaon	177 apr	0.17	1.10	414 /	-001F	200 07 200 07 000 00		NH NH	0'62 0'17 Nil 1'10	2:91 1 37 3:25 2:30	1.75 1.09	0°77 0°34 0°35 1°10	0.77
	Southal Per wunnaba.	Bajmehal Godon Pakuur Nya Doomka Leokhur Jamsara Mokagama Vannat	SOUTH SAN TO SAN	0 23	0°02 0°38 1 13	490000 VIII.	0°30 0°98	0'30	00000 00000 00000 00000	Nii 22 22 22 22 22 22 22 22 22 22 22 22 2	Nil 0.63 1.30 0.83 0.88 1.18	2:52 2:88 8:08 8:00 0:10 0:88 1:34 1:25 0:12	2 25 1 8 2 2 12 1 7 3 2 18 2 41	1°34 1°35 2°43 0°32 0°38 1°15 Nil	1700 0165 0153 0153 0150
PRE HAC-	Weenribuch .	factamento (Giride) Haustibach	000100		0'e6	#\$6#A	*****	P98	499.999	8	0.05	1'07	1'88	0'11	0100
		Semiagurah Mahudi Hilis Jhoomea Hills Barkis Chatra Karogdaha Kamphar	000 ag.		0.25		01	0.10	94840 960 HER	NII NII NII NII 3	Nil Nil Nil 0 10 0 40	0-61 0-23 1-00 1-29 1-80	1783 1763 1763	741 741 741 040 140 956	013 013 013 013
	Lohard mora	Lohar-tugga Rambi Palawow Relis Batumas Garmah	\$000 pt 000, eq 000110	6130 6130	6,30 6,31 6,31	67.56	0-0+1 - 0-0 - 0-0 - 0-0	*****	0'08	1 8 8 2	0'21 0'63 1'18 0'60 Nil	078 1798 1718 1740 Nil	0'87 1'70 0'88 1	0°71 1°03 1°15 1°40 241 241 241	0160 0160 0160 P
	<b>Singbhoom</b>	Chychasa Chakradhar	r08101	*****	0.78	C02504	*****	1 40	000000	2	1:20	Nil 3-72	2:62	Mae	1705
<i>j</i> .	Manhham	pore. Chatrilla Raharagura	020010	0:90	O.ST	000 per	******	1:00	000 rqs Nột cấp	2 2	1'90 0'51	8180 8185	?	9104 3140	9
	Maabhaam	Parulm Gobindpore Maghanath- pore.	076290 076290		0.04	000 tot 000 to 000 to	000000 700-00 00000	0/38	040044 900043 514184	Mil	0188 0184 Nil	1*46 0*19 0*38	2'87	0°71 0°04 Nil	0'66
		Jishes	500000 100001 000000	0 52	0.08	640504 640504	******	0:41	9190	1 2	0°20 0°52 0°66	0.00	7	0°90 0°53 0°46	. !

displanation, ......indicates that so rain lies failen. If the return for any day has not been preserved, the curresponding space is left blank. If any of the returns

CALCUTTA, the 27th May, 1890.

SUMMARY OF THE METEUROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 23RD OF MAY 1890.

Weather during the week has been very uniform in character, pressure distribution remaining practically unchanged, while easterly winds have been very prevalent except in Orissa and Chutia Nagpur, and scattered or general rainfall in all districts every day of the week. The rainfall in East and North Bengal at this season is much heavier than at the commencement of May, from the irregular incursion of moist winds from the east, when the monsoon may be said to have commenced. But generally these conditions do not extend as far as the western districts. During the past week the almost constant east winds have brought a larger proportion of these moist masses of air and very showery weather has been general in South-West Bengal and Orissa, while in North and East Bengal considerably less rain has fallen than in an average year. The rainfall and changes of temperature have been irregular, the latter depending on the former; but pressure has hardly changed, and light winds have been blowing throughout the week. The usual distribution of pressure has been as follows:—low pressure over Chutia Nagpur and sometimes over Orissa and the head of the Bay, and the highest pressure in North or East Bengal, so that isobars have been running north and south or from north-west to south-east, the easterly winds being due to this arrangement, and therefore the rainfall also. As the winds became less easterly the rainfall seemed to diminish, and there was a very marked difference on alternate days at the beginning of the week. On Saturday and Monday, with the gradients running from north-west to south-east and strongly easterly winds, showers were much more general than on Sunday and Tuesday, when the gradients were from north to south and the easterly circulation not commencement of May, from the irregular incursion of moist winds from the east, when the and Tuesday, when the gradients were from north to south and the easterly circulation not so marked On Wednesday the weather was more unsettled, and almost general rain fell in all districts, while on Thursday pressure was low over Behar, and normal conditions were beginning to appear; but from the irregular winds still blowing in Lower Bengal on that

day, a few scattered showers continued to fall. On Friday ordinary weather prevailed, and a few showers fell in North Bengal only.

Pressure—Continued uniformly above the normal by amounts varying up to seven-hundredths of an inch till the last two days of the week, when excess was almost everywhere below a twentieth of an inch. The means for the week are, therefore, all above the normal by about a twentieth of an inch in North Behar and two to three-hundredths of an inch in all other districts. in all other districts. Pressure changes have almost without exception been under a twentieth of an inch, the only case where this has been exceeded being the fall of '07 inch in the

north-west corner of the Bay on Wednesday.

Temperature—Has generally been below the normal, and variations have been large and irregular owing to the variable character of the rainfall. At the commencement of the week there was defect of six or seven degrees in the centre of Bengal and of under five degrees in the outer districts, and this defect has continued in the western districts, but in the east and north occasionally high temperature has occurred as rainfall decreased in amount. The means are all below the normal, very slightly in Assam, by about 1° in East Bengal and Orissa, by 2° in North Bengal, South Behar, and Chutia Nagpur, and by nearly 3° in South-West Bengal and North Behar. These means shew how irregular the temperature distribution has been, as even after the smoothing process great diversity remains.

\*Rainfall—Has been nearly an inch in excess in Orissa and South-West Bengal, as much in defect in East and North Bengal, a third of an inch above the normal in North Behar, alightly below in South Behar, and normal in Chutia Nagpur. Some heavy falls are re-

alightly below in South Behar, and normal in Chutia Nagpur. Some heavy falls are reported from the Midnapore district, the heaviest being 6.4 inches at Contai and 4.8 inches at Tumlook; the heaviest in South-West Boagal 4.1 inches at Lalgola in the Mourahedabad district and over 3 inches in Nuddes and Jessore. In East and North Bengal the showers were very scattered, and falls are rarely over 2 inches. In North Behar general rain fell on Monday and scattered showers on the two following days, but for the rest of the week practically no rain fell there, as in South Behar for the whole week. Showers were most numerous in Chutia Nagpur on Monday and Thursday, but only three stations—one in Lohardware and the other two in Singhhoom—received more than one inch.

Lohardugga and the other two in Singbhoom-received more than one inch.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 23rd of May 1890:—

					Tami	PERATI	CRH					3	LAINE	A.E.E.				
			g week.	r week.	Averages for week.				Of week.			Reiny days.			Bince 1st of mouth.		Since 18th May 1880,	
Marror of Division		PAS	Bighest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of motes for each day.	Average mean of week below normal mean of	Average	Normal average.	Veration.	Average number in	Normal average Sum-	Variation,	Average.	Normal average.	Average.	Hornel average.
Orion	-0.0	0.04	105'9	75 1	0.00	78%	83.5	-13	1'60	070	+0.70	27	1.3	+114	2:40	2.63	1.03	0112
South-West Be	laga	646	102:1	67:6	96'1	76'0	55 6	-2'8	1100	078	+0'91	2'6	1.0	+0.8	8'97	3.00	2'87	0'96
Bast Bengal	100	400	9419	9.60	80'5	78'8	8817	-10	0156	1'80	-0162	1'8	2:1	-016	4'34	6:55	1:81	171
North Bengal	-64	121	977	64"1	8918	78'6	61'5	-E.o	0*78	1100	-0.01	210	22	-0.3	4173	5'86	1'87	279
North Bohar	+ 0-0	***	100'3	6018	9314	74%	63'4	-97	0183	9180	+0'23	378	816	+0.8	1'94	1906	8'97	071
south Schar	***	+04	107-4	72'7	98*1	7873	8816	-5.1	0.33	0.93	-0.30	8.0	0:8	0	1123	1:43	0.40	0168
Chutia Nagpur	***	Sur.	102.00	70'40	96-20	74 30	85:40	-2-0°	0143	0160	+0'01	11	1.1	+0"1	1'81	1'00	9163	0.81
Acces to	199	***	93'6	6814	88'5	73'8	90'9	-0.8										-

<sup>·</sup> Chyobases not included.

MWTHOMOLOGICAL OFFICE, BENGAL;
The 27th May 1890.

C. LITTLE,

Offg. Meteorological Reporter to the Goot. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 18th to 24th May 1890.

		A. M.			Tenr	KHATURE.			E	denometri	۲.	bours.
Morre.	Date.	Pressure at 10 courseted and rote to 52 Fahr.	Daily mean.	Maximum.	ftange.	Minimum.	Dry builb at 10	Wot builb at 10	Variour tension as 10 s.m.	Dew point at 10 A.M.	Hunidity at 10	Rainfall part 24 ho
	1	Inches.		•	-		•	0	Inches.		Z	Inohes
ny 1800	19th 19th 20th 20th 22nd 23rd 24th	29 747 770 746 720 788 785 691	87-4 85-8 88-9 86-6 83-7 89-3 88-3	95.5 97.0 97.8 96.0 95.0 97.0 94.3	16-2 22-4 15-0 20-4 22-7 27-4 16-0	79 8 74 6 79 8 75 6 72 3 79 6 80 3	89-6 88-4 92-4 88-6 87-1 91-0 92-1	80·7 78·5 82·0 62·5 78·5 83·1 88·5	942 942 963 1 930 960 1 927 1 982	77 0 74 0 77 8 80 1 74 7 80 0 80 2	63 62 77 63 70	0-02 0-48 0-96

The mean 10 a.m. pressure of the seven days	***	4 * *	29.736
The mean temperature of the seven days	444	140	86.9
The extreme variation of temperature The maximum temperature		***	25·5 97·8
The mean 10 A.M. relative humidity of the seven days	400	4 0 0	%
The total fall of rain from 18th to 24th May 1890	• • •	1 6 8	1:44

The daily mean temperatures are the crude means of maximum and minimum temperatures.

J. H. GILLILAND,

For Meteorological Reporter to the Goot. of India.

Meteorological Oppice, India; The 26:4 May 1890.

#### Results of the Meteorological Observations taken at the Alipore Observatory from 18th to 24th May 1890.

			8	barometer		TREEPE	RATURI	B.		Hyono	KETRY.		Wnrp.			
Month.	Date.	Maximum in enn.	Number of bourn	Mean pressure baro at 32° Fahr.	None.	Hazimon.	Banga,	Mistmus.	Mean wet bulb,	Vapour tonados.	Dew point,	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Weather!
1890.		0		Inches.	0	0	0	0	0	Inches	0	Z			Inches,	
May	18th	160-8	97	99-692	80.6	93.2	15-2	78-8	78-2	0.884	75-5	75	SE by 8, 88W and variable.	183	0.02	Partially cloudy
1.0	19th	147-5	11-0	-386	85-8	95.7	21-9	73.8	77-8	-827	73.6	68	ENE and variable	82	NII	Partially cloudy
£2	20th	148-9	10-0	-688	86.3	98-5	17:4	79-1	79-8	932	77:1	76	SSW, S and variable.	163	0-18	Partially cloudy
2.0	21st	148-8	9-6	-684	85 2	96-1	90.8	74-3	79-1	-918	76-6	77	SW, SSE and variable.	118	1.02	Chiefly cloudy
11	22nd	149-1	10.8	-673	84-8	94-1	28-3	70-8	78-3	1886	75-6	74	S, SSW and variable	149	0.47	Chiefly cloudy
91	<b>93</b> rd	342.6	10-0	-800	87.3	95-2	16-6	78-7	81 %	1-090	79-2	78	SE by 8 and 88W	102	Nil	Partially cloudy
.,	24th	149-4	10-2	*627	86-9	94-0	14-6	79.5	80.6	0-963	78-1	76	SSW and variable	188	0.18	Partially cloudy,

The man process of the course James				Inches. 29.673
The mean pressure of the seven days  The average pressure of the corresponding period for	r 24 was	S-G'- C	AR on	29.647
THE SASTARE DISSERTS OF CHE COLLESPONDING PARIOR LOS	1 22 yes	Mrs, OCr. s C	идов	Hours
The total number of hours of bright sunshine		* * *		70.8
The maximum possible number of hours of sunshine			***	92.8
The mean temperature of the seven days		* * *	•••	85.8
The average temperature of the corresponding period	d for 24	years, 8G.	's Office	86.9
The extreme variation of temperature		***	***	25.7
The maximum temperature		4 9 9		96.5
				Miles.
The highest velocity of the wind in one hour	***	a • •	0.00	17 Ibu-
The highest pressure of wind on one square foot		* % *	Approxim	ately 8
The mean relative humidity	-0-	***		75.
The average relative humidity of the corresponding	nariod (		8G.'s	
Office	posiou .	os or yours,	-40	73
	***			Inches.
The total fall of rain from 18th to 24th May 1890		Q !- Off		1.87
The average fall of the corresponding period for 24 y	CORTE, D.	-G. # Umos	* * *	0.77
The total fall from 1st January to 24th May 1890	***	Q 1- O.C.	0.00	6.34
The average fall of the corresponding period for 24 y				8 00

The mean pressure, temperature, &c., are deduced from the traces of the Barograph and Thermograph. The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly at the Surveyor-General's Office.

The barometeric elements are obtained from Tables III. IV. and V of the official tables computed in

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, t thunder, < lightning; p passing temporary showers, a dew.

In the weekly report from 4th to 10th May 1890 read 75'3 for 70'8 as dow point of the 10th May 1890.

J. H. GILLILAND,

For Meteorological Reporter to the Goet, of India.

METHOROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 62th May 1890.

### MEMORANDUM.

Weekly review of birthe and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 10th May 1890.

#### BIRTHS.

BIRTHS registered during the week ending with Saturday, the 10th May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 15.3 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is lower than the average rate of the corresponding week of the past five years by 3.3, and is also lower than the rate of the corresponding week of any of the past five years with which comparison is instituted, vide the figures below:—

	1888.	1888.	1887.	1888.	3900.	Weekly average of five years.	1000,
Ratio of births per 1,000 of the population per	34'3	16'8	10.5	17'9	19*1	19:6	18/3

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:—

						WERES !	REDIEG						WHEE.	ENDING-	-
- 4	Tow	TRO.			19th April 1880.	26th April 1890.	3rd May 1890.	10th May 1808.	Tow	F6.		19th April 1886.	26th April 1390.	3rd May 1890.	19th May 1886.
Burdwan Muinapore Hughli and C Serangara Howrah Rab Kuhnagar Eannichat Sani	100 100 100 100 100 100	000 000 000 000 000 000 000	other one one one one one one one one one one	DOG DOG DOG DOG DOG DOG DOG DOG DOG DOG	30:6 16:5 24:6 37:3 18:0 17:6 10:5 22:7 24:0 3:5 15:4 31:1 14:0 16:0	1279 1770 3473 978 974 1372 770 378 1270 770 671 3472 774 12876	978 1874 2870 1876 976 1778 2171 2277 670 1876 2170 1678 678	18:3 6:9 28:6 19:6 18:9 18:5 7:0 17:0 17:5 18:4 81:5 48:2 13:6	Chittenceng Commissis Patna City Gyp Arrish Moantferpore Durbinniga Chupra Bhasenipore Monghyr	io 150	one one one one one one one one one one	41:4 9:3 11:6 7:6 18:7 16:6 13:4 9:1 9:1 9:1 9:1 9:1 9:1 9:1 9:1 9:1 9:1	84'9 11'7 30'4 5'2 21'0 10'A 10'9 21'3 22'1 18'1 19'0 34'1 18'9	20 7 9 6 47 4 5 6 13 3 14 6 10 9 16 8 18 1 10 0 17 2 34 6 10 8	9411 1614 8013 778 143 1018 1518 8148 870 1418 978 8412 1819

It will be seen that last week the highest birth-rate was returned from Comillah (50·1) and the lowest from Chupra (5·0). No births were registered during the week in Ranaghat town Dearns.

The deaths registered during the week under review correspond to an annual rate of 26.9 per 1,000 of the population. The rate of the week is by 4.9 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, side the figures below:—

	1000.	1006.	1807.	1000.	1000,	Weekly average of five years.	1000.
Ratic of deaths per 1,000 of the population per name	2018	90'4	2173	170	22.70	80	200

The deaths registered in each of the last four weeks in each of the twenty-seven towns correspond to the following rates per 1,000 of the population:—

			WHEELS	SEDING-					WHEED I	ENDING-	•
Towns	,	19th April 1880.	seth April 1880.	and May 1290.	10th May 1500.	Towns.		1945 April 1890.	Sech April 1886.	and May 1899.	18th May 1880.
Darca	018	2010 2011 6519 1711 2010 2111 1114 6.0 215 4214 2013 1816	2379 1379 5678 6071 6772 1075 776  578 1576 5678	21'4 17'0 65'6 21'5 17'3 12'1 47'9 8'8 18'5 18'5 18'5 18'6 11'4 6 17'5	2414 2715 4715 576 1575 1075 1070 271 1670 275 277 277 277 277 277 277 277 277 277	Chiltharong Comillah	100 000 000 000 000 000 000 000 000 000	1914 916 11-8 10-8 44-6 28-7 1819 1819 1819 1819 1819 1817 1817 181	A'8 81'1 11'0 60'4 84'8 84'8 84'5 19'8 84'4 98'1 56'6 87'1 84'8 86'1	10°6 8'0 19'3 306'3 85'1 11'0 84'3 87'1 46'8 82'7 36'7	18'4 7'0 23'1 31'5 81'4 9'6 84'3 54'3 11'1 84'3 11'10'0 87'7 44'1

It will be seen that last week the highest mortality occurred in the town of Darjiling (88.9) and the lowest in Santipore (3.5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.

Fever.

Other causes.

		atio pe millo,	P		R	atio per mille.		1	Ratio per mille.
Patna City Bhagulpore Hughli and Chinsurah Durbhanga Howrah	• • • •	18 2 18 6 11 6 7 9 4 0		Darjiling Durbhanga Hughli and Chinsurah Kampore Beauleah Purasah		74·1 84·6 29·5 21·0 <b>2</b> 0·8	Poori Midnapore Serampore Gya Bhagulpore	00 ·	21.0 13.9 13.7 12.3 11.7

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 5.4 from cholera, against 4.9 per 1,000 in the preceding week; 11.9 from fever, against 12.4; 2.3 from bowel-complaints, against 1.9; 2 from injury, against 4; 6.4 from other causes, against 5.9 in the preceding week; and 7 from small-pox, against 1.2. The mortality from small-pox is noticeably severe in the Pstua City, there being six deaths (1.9 per 1.000 of population).

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.

According to Class.

According to Age.

	Ratio per mille,		Ratio				1	Ratio per mille.
Males Formales Ratio of male deaths to every 100 female deaths, calculated on the proportion such mortality bears to the total male and female population		Christians Hindus Mahomedans Budhiets Other classes	24	50 1 57 10 58 16 20 80 40 50	nder 1 ye and unde	10 15 20 80 40 60	000 000 000 000 000	196-7 40-3 13-7 10-3 23-8 19-5 17-2 20-8 29-8 61-4

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 26th May 1890.

Sanitary Commissioner for Bengal.

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OFFICE OF SANITARY COMMISSIONER FOR BENGAL,

The 26th May 1890.

# CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 24th May 1890, as compared with the corresponding week of the previous year.

			When h	THE MAY 1890.	AT, THE	Wase by	DING BATTED TH MAT 1869.	AT, THE
NATORE	OF CARGO.		Humber of bonts.	Weight of	Tollage,	Number of boats.	Wanth? of eargo,	Tolings,
			No.	Mds.	Br.	No.	Mds.	Re.
Rice and paddy Jute Pirewood Other articles	900 900 900	000	221 24 97 828	53,300 11,800 53,200 2,60,020	713 220 743 8,653	211 9 114 666	\$4.500 4,925 65,100 2,25,080	700 81 941 8,226
	Total	000	1,170	3,78,320	5,228	990	8,49,008	6,000

## Eastern Bengal State Railway.

Abstract of principal commodition carried over the Bastern Bengal State Railway during the month of February 1890, as compared with the same month of the precious year.

					- 1	18	90.	1809.		Tor.	A.E.,		
	STAPL	300.				Up.	Down.	Up.	Down,	1890.	1600.	increase.	Dugrane
						Tons.	Tone.	Tona,	Tons.	Tous.	Tona.	Tons.	Tous.
- •						36,494	3,497	35,006	8,190	39,801	20,996	506	
Cotton, raw Cotton psecs-goods 1.—European—		***	001	**4	0.00	1.84	1,100	044 *0*	Box	1,886	800	784	000000
a,—in ba	les and	bund	Llon	200	1			,		1			
-Indiana				004		2,725	- 06	2,418	300	2,791	2,617	174	000.000
a -In ba			Jos	100									
a,—In bo	540	001	grave.	1400						- 1			-
2Rice	994	900	+0.0	11010	200	9,006	3,500	2,061	3,079 7,366	6,174	4,197	9,087	80. 101
ides and skins-	***	001	000	504	5+1	249	30,784	634	1,200	11,709	7,404	3,175	801711
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a. — legend è. — Unule	MPHCS.	007	891	0.00	***								-
9.—Illiums of shi	eep. &	-	200	094		7	708	20	846	718	666	80	
aDrew	ied	000	004	-	107	}				1			
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I - RAW							2,004		1.646	2,964	1,068	1.319	
a.—Seren	notred	800	444	001		1	9,055	27	8,535	D,1467	8,618	8,515	000
1Gunny-bag	and e	loth	400	146		354	964	205	636	1,316	1,000	816	901119
L-Copper, unv				444	Par 1								
2.—Brann, Grw	ought	200	+01	440	011								
1 - Brace Stor O	opper,	ALLOW		dee	011	1,680	198	1,996	101	1,888	1,805	847	******
4-Iron	and and	201	000	810	001								
6 Others	000	440	100	300									
ile Kerceine	-01	200	000	100		444	1	947	20	448	500	200	100144
1.—Others	491	410	0.07	090	Pa	205	63	118	66	361	161	180	101110
L- Lineed				246	1								1
1 Rape and m	miard	400	0.00	164									
3,-Til or ginge	lly	400	200	000	1.01	120	2,000	99	3,630	2,530	8,738		1,37
4.—Niger	-00	ee1	011	89.4	0.01		2,000		-,	2,000	0/170	******	1,00
6Poppy	000	001	319	***	000								
7,Others	P0-0	444	0.00	0.040	13- 3								
2Betelnute	900	461	0.010	24.6	***	188	1,000	138 677	74	1,186	208	900	000,001
8Others	nolline.	atonk	97.0 94.0	0.0 =	134	2,351	1,487	8,514	1,897	3,041	3,061	000+11	1,30
ile	Det .		200	100	200	3,765	6	2,464	14	8,791	3,400	1,300	5,460
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<b>10</b> -					1.						-		
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cod-							100						
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Il other artinies of	merch		-		1.								
1 Unmanufact	rd	***	000	000	200	4,500	1,005	4,006	1,000	6,120	4,027	111100	
ey, straw, and we	oloe (C	. & S.	-18.	Bection	) (	779	\$000.00	1,000	201-21	770	3,000	107111	31
			-	Total	-	40,995	41,807	37,765	33,210	89,789	70,075	16,001	4.94

Abstract of principal commodities carried over the Eastern Bengal State Railway during the month of Esbruary 1890.

		INCREASE	III.				
							Tons.
Coal	***			000	101	404	995
For railway and flotilla consumption.							
Cotton, raw		1		* # #	0.00	***	784
Principally in booking from Armenian Gha	t, also fr	om Narayang	unge.				
The Northern Section contributed 1,500 to	400	* ***		110	App	***	2,037
	us of thi	n ingresse am	1 the Bouth	ern Section	the remaind	02".	
Jute, screwed		000	401	1 1 . 4 3	1 41	***	1,319
Kawrald, Damani, and Saidpur were the pri	-	-	_	-	_		
Damoohdis and Goalundo show the largest	In annual	hart than on	000	***	-21 41	****	3,516
jute-booking stations on the system.	THICK GROOM	, with chera wi	ale emper: 1270	SLOWING BLOKE	r arr gue be	incipal	
Botel-nuts							000
Principally from B. C. F. stations.	0.00	9.94	***	***	000	***	930
9.14							1 000
The increase is almost exclusively in bookin	er from (	Thitmore	000	884	6 u 0	***	1,809
AND EDUCATION OF PERSONS AND AND AND AND AND AND AND AND AND AND		amongroup or					
		DECREASE	l.			0	
Oil-seeds		***	***	***			1,178
Due to unfavorable crop in the district.	***	***	***	***	* * *		1,110
Railway plant, dc	100			100	***		1,383
Due to completion of works on the Behar S				100	***	***	2,000
Bugar	111	144	001				695
Falling off in despatches from Choosdanga.		gunj, Halen ;	also in rec	eipta from	B. C. Railw	BV.	200
							0
						F. P.	QUINLAN,
CALCUTTA, the 12th May 1890.					100	tominer	of Accounts

# Weekly Return of Traffic Receipts on Indian Railways.

#### BAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 17th May 1890, on 1,525} miles open.

	COACHIE	o Thaypic	2.	Munchandia Ta	RAND MINERAL Levic.	Other carnings	Total sarnings.	TRAFFIC	TRAID-NIE	es ave.
	Humber of passengers.	Receip	10.	Weight carried.	Receipts.	(estimated).	rotal earnings.	Couching.	Merchan- dise.	Total.
		Re.	A. P.	Mps. s.	Ro. A. P.	Ro. A. P.	Re. A. P.			
Total srafte for the week	208,488	2,62,338 171	4 0	26,37,765 10	6,84,395 4 6 409 6 11	90,780 13 8 13 9 11	9,07,809 & 0 804 16 3	65,004	100,962}	105,616
Lact on m so m	4,938,861	64,70,794	8 0	6,00,67,576 10	1,17,84,612 15 3	8,82,001 1 9	1,75,87,428 9 0	1,246,868}	1,834,984}	3,081,882
Total for 80 weeks	8,900,779	57,33,117	12 0	5,17,00,281 30	1,23,59,008 3 8	4,03,811 14 9	1,84,94,937 14 0	1,312,338}	1,935,9362	3,248,200
COMPARISON.										
Total for corresponding week of pravious year Per mile of rail way correspond-	274,232)	2,47,518	<b>a</b> 0	31,60,606 30	7,38,912 11 3	26,718 1 6	10,07,163 1 9	63,786	118,770	174,596
ing week of previous year	+00004	100	4 1	000 500	461 2 6	16 13 6	660 3 3	000001	000000	004 000
Total to corresponding date of	6,861,839}	50,68,448	9 0	5,05,74,038 9	1,34,45,569 14 10	3,41,546 6 8	1,87,58,578 7 1	1,316,461	1,970,615	3,267,070

Approximate Statement of gross receipts of the East Indian Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 28rd July 1883.

Recurry 18	es for while	HADIRO	Racus	TO FOR WERE 17TH MAY 1890	BYDING		RECRIPTS PROPRIET PRO		TOTAL	PRIL 1890 TO 1 MAY 1890,	m lor Tru	Total	Total
Mean milence worked.	Receipte.	Por	Mean mileage worked.	Receipte,	Par mile worked.	Mean milwage worked,	Total receipts.	Per mile worked per week,	Mean unleago worked.	Total receipts.	Per mile worked per week.	increase in 1890.	1890.
	Re.	Re.		Bo.	Re.		Bo.	Re.		Re.	Re.	Ro.	Ro.
1,6900	10,07,148	600	1,680}	9,07,800	898	1,850 }	06,87,600	681	1,085}	68,96,360	000	des este	3,01,840

#### PATNA-GYA STATE BAILWAY.

Approximate Return of Traffit for week ended 17th May 1890, on 871 miles open.

	COACETH	THAPPE	c.		MERCHAPPINE TRAF			BAL	Other wat	nine	Wasai a				Thais-Milb	a non.
	Number of passengers.	Recor	pes.		Weight carried.	Boosi	pts	io .	( ostima	od).	100010	1001	23 15 <b>45</b> 10	Osaching.	Merchan- dies.	Total
		Ba.	Δ. Ι	١.	Mitter o.	Bo.	۵.	p.	Ro.	4. 7.	Be		4. P.			
Total traffic for the week Or permile of railway For previous 19 weeks of half-	18,708 430)	6,233 110	11		48,012 8 787 0	2,980		0	84	0 0	9,3		22 0 3 11	1,818	003	2,804
7007	*264,048	*1,34,155	14	0	19,49,201 0	161,790	14	-0	2707	6 0	1,00,7	69	0 0	81,820}	13,978	45,400
Total for 30 weeks	277,347	1,42,589	9	0	9,94,213 0	64,673	18	0	821	6 0	2,08,0	96	13 0	83,4324	34,000	47,800
Companies.																
Tetal for corresponding week of previous year	12,30?	8,487	9	d	51,240 20	3,000	7		27	1 6	8,6	56	12 0	1,071	960	2,661
ing week of previous year	917	86	0 1	1	DIE 0	20	13	8		7 7	1	48	6 11	907.211	******	100 au
beations have an an an	* 284,400)	1,51,580	19 1	0	8,67,801 0	80,906	8		1,488	8 0	2,04,0	20	6 10	86,467	14,630	80,150

<sup>\*</sup> A ided No. of passongers 8,000 and Rs. 7,070 0 0 on account of differences between the approximate and audited returns to weak ended 29th March 1890.

Approximate Statement of grove receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

	TO POR WHEN			TH POR WHEEL			L RECTIFFO PROPERTY INC.			HELL INVO TO 17 MAY 1600,		Total	Total
Meas mirage Ported.	Receipts.	Per mile werned.	Mean stirage corned.	Zaccipto.	Per mile worked.	Mean milrage worked	Total receipts.		Mean mileage worked.	Total receipte.	mile worked per -ack.	ingrease in 1890.	decrease is
1	Be.	Ro.		Rec	Ba.		Ro,	Bo.		Ro.	Ba.	Re.	Ba.
7)	8,467	140	87)	9,838	163	87)	00,435	3,00	676	99,436	1300	28,001	111-101

Added Ra. 7,997 on account of difference between the approximate and audited returns to wash ended 19th March 1809.

#### TARKESSUE BRANCH RAILWAY.

Approximate Return of Traffic for most ended 17th May 1890, on 23; miles open.

	Оодсин	e Traffi	c.	MERCHANDION TRAN		Other entmines	Total	TRAFFIC	TRAIS-MIL	do Ruy.
	Number of passengers.	Receip	ıba,	Weight enried.	Receipts.	(astimated).	ournings.	Counhing.	Merchan- diss.	Total.
		Ra.	A. P.	MDs. 5.	Ro. A. P.	Bo. s. 2,	No. A. P.			
Total traffic for the week Or per mile of ratiway For previous 19 weeks of half-	19,000	860% 862	14 0	9,748 20	313 16 0 24 1 8	7 P 0 0 5 6	8,400 S 0 843 1 1	900	*14.000	108
\$405 mg	*469,653	*1,16,704	8 0	12,96,974 10	19,410 16 0	2163 1 0	1,54,300 2 0	14,003	2,160	18,500
Total for 30 weeks	648,212	1,19,831	1 0	\$,06,717 30	9,753 12 0	192 10 0	3,59,777 7 0	17,786	2,148	10,000
COMPARISON.										
Total for corresponding week of previous year. For mile of railway correspond-	20,235)	4,904	2 7	7,005 10	286 0 0	19 1 3	0,947 4 10	913	86	203
and week of providing year	+16420	318	1 9	200004	19 18 3	0 18 9	330 11 9	411411	*****	PE 1129
Tetal to opersepunding date of	405,400	1,25,610 1	8 7	1,02,504 10	6,900 14 0	186 18 9	1,20,000 6 4	19,490	1,016	19,646

<sup>\*</sup> Added number of passengers 4,915 and Re. 1,463 )

1 Ditto manuals 25,016 ... 250 on account of differences between the approximate and sudjied returns to week ended 39th March 1890.

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Ruilway, dated 23rd July 1888.

	POR WEEL			PTS FOR WHIS 17TH MAT 180			L abreipts you least less to a May 1980.			E RECEIPTS PAR PALL 1880 TO 10 MAY 1890.		Total	Total
Man Dirage Porked.	Presipio.	Pur mile worked.	Hasp mileage worked.	Rectipus.	Per mile worked.	Mean sulesses worked.	Total receipts.	Per mile worked jury work,	Mean mileage worked.	Total receipts.	Per mile worked per week.	increase in laws.	decrease H
м	Ba.	Ba		Bs.	Bo.		So.	Ba.		Ra.	Re.	Ba.	20
200	8,397	207	204	8,400	946	201	40,441	311	200	*40,814	819	78	*****

<sup>4</sup> Added Rs. 1,711 on account of difference, between the approximate and sudited figures to week ended 20th March 1800.

#### EASTERN BENGAL STATE BAILWAY.

(INCLUDING N. B., DACOA, KOAND D., AND ASSAM-BREAR SECTIONS.)

Approximate Return of Traffic for week ended 10th May 1890, on 747 miles open.

	COACRIN	o Traypi	G.	MERCHANI		PPIC.	384	AL	Other mar (cutimus		Total	TRAFFIC	Train-mile	s her.
	Number of passengers.	Conchi		Weight ourried.			etn.		include steam-be		earnings,	Coaching,	Merchan-	Total.
		Re.	4. 2.	Mos.	<b>a</b> .	Be.	٨.	p.	Ba.	A. 8.	80. A. 2.			
Tona trade for the week Or per mile of railway For previous 16 weeks of half-	390,78n 206 2,937,320	77,820 104	0 0	5,91,710 696 1,01 90,180	0	90,740 1±1 18,78,486	0		17,290 12	0 0	1,88,840 0 0 217 0 8	404 100	97,007 	907,000
Total for 19 weeks	8,180,0\$0	14,79,867	-	1,00,11,800	-	19,69,166	-	0	8.70,540	0 0	31,19,603 0 0		869,469	246,42
Total for corresponding week of previous year	140,100	00,976				65,900	-	0	e\$7,215		1,83,468 0 0		. 94,397	45,78
ing period of previous year Total to corresponding date of previous year	1,8:6,636	14,15,406			-	15,59,006		0	137	0 0	256 0 0	001100	460,435	867,96

<sup>\*</sup> Audited up to week ending 15th March 1830

#### FINANCIAL YEAR.

Approximate Statement of gross receipts of the Rastern Bengal State Railway.

	re por were the May 1889.			orn May 1880.			L RECEIPTS DES PRIL 1889 TO 11 MAY 1889.			MAY 1890.		Total increase in	Total .
Mean milrage worked	Becripto.	Per mile worked.	Mean mileage worked,	Receipte.	Per mile wo: Ked.	Mean mileage worked.	fotal receipts.	For untile worked per week.	Mean		for mile orand per week.	LM00.	line,
	Ro.	No.		Re.	Bo,	1	Ra.	Re.		Re.	Re.	Ro.	Ra,
68	1,63,468	273	747	1,68,610	340	673	9,53,000	238	767	10,55,978	236	1,00,918	60****

### BENGAL CENTRAL BAILWAY.

Approximate Return of Traffic for week ended 10th May 1890, on 125 miles open.

	COACRIN	TRAFFI	C.		Menonaus		PPIC.	81	LAL	Other ea	Onto Ace		Total			TRAFFIC	TRAIN-MILE	10 STN.
	Number of passengers.	Conchi			Weight carried.		Receip	μe,		(estima			001.01			Conching.	Morehon- diss,	Total
		Ba.	۵.	P.	Mus.	0.	Ba.	A.	р.	Ba,	Δ.	p.	Re,	Α.	P.			1
Total traffic for the week Or per mile of rartway For previous 15 weeks of half-	22,420 259	9,030 71		0 0	40,990		8,410 27		0	10	0	0	18,490 100			3,738	1,937	8,67
P607 -00 004 00 NA	508,194	1,73,116	0		9,61,267	0	58,432	0	0	1,198	0	0	<b>*:,29,734</b>	0	0	65,687	34,530	90,42
Total for 19 weeks	833,614	1,52,144	-	-	10,11,987	0	\$6,632	0	0	1,248	0	0	2,42,294	0	0	89,372	86,178	108,54
COMPARISON.				1											1			
Total for ourresponding week of pravious year	39,204	9,806	0	0	87,744	0	3,974	0	•	80		o	13,833	0	c	8,001	1,991	8,673
ing period of provious year	254	78	0	0	462	0	31	0	0	1	0	0	111		0	000 201	990000	202.000
Total to corresponding date of	849,149	1,68,980	0	0	10,80,011	0	01,983	0	0	4,720	0	0	2,85,600	6	0	69,727	36,676	100,40

<sup>\*</sup> Audited up to week ending 18th March 1890.

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Bengal Central Railway.

Rocas pe	PS FOR WHIRE ITM MAY ISSE	ESPINO J.	RECEIPT 101	TO POR WHER TH MAY 1890.	MADINA		L ANGETPTO PRO 1, 1880 TO 11TH 1889.			L RECUEPTS PRO L 1890 TO 10TH 1490.		Total	Total
Wenn melinare Worked	Receipte.	Per mile corked	Mean mileage worked.	Recoipts.	Por	Mean milesse worked	Total receipte.	Per mile worked per week.	Mean mileage worked.	Total receipts.	for mile worked per work.	indress in 1890.	decrease a
	Re.	Re.		Ba.	Ro.		Ro.	Ra.		Bo.	Ra.	Bs.	Ra.
196	18,638	122	120	15,690	100	198	77,869	106	125	71,316	96	10*111	6,843

a Includes Rs. 21.723, profits of workshops.

# DACCA STATE BAILWAY.

Approximate Beturn of Traffic for week ended 10th May 1890, on 86 miles open.

	Солсин	G TRAPPI	C.	MNUCHAND		Pic.	RAL	Other ear	nines	Tota		TRAFFIC	THAIR-MILI	s sus,
	Number of passongers.	Coach		Weight carried.		Receipts		(cotimat		ORPELEN	pi.	Conching.	Merchan- diss.	Total,
,		Re.	A. F.	Mps.	8.	Ba. a	. P.	Re.	A. P.	Ba.	A. P.			
Total traffic for the week	14,300 160	4,840 83	0 0	28,650 104		1,610 (	0 0	250 2	0 0		0 0		(000	8,100
For previous 16 weeks of half-	898,180	1,04,837	0 0	4,40,500	0	48,865 (	0 0	2,944	0 0	*1.50,609	0 0	48,818	32,000	86,325
Total for 10 weeks	122,450	1,09,377	0 0	4,65,350	0	45,294	0 0	3,061	0 0	1,84,738	9 4	45,997	13,499	89,400
Comparison.														-
Total for corresponding period of previous year Per tal end railway corresponding	13,818	6,570	0 0	19,119		700 (		184	0 0	6,188	0 0	2,405	3,048	3,300
married of remercially Yells?	387	80	0 0	220	0	9 (	0 0	1	0 0	80	0 0	4+1900	*****	9011
Potal to corresponding date of	200,465	80,000	0 0	8,30,934	0	18,478		3,148	0 0	1,15,000		66,843	34,000	40,000

Audited up to week ending 18th March 1890

#### PINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway,

Racaty:	re son where	ENDING		TO FOR WEEK	ENDIRO		ENCRIPTS PRO L 1869 TO HIR , 1869.			RECEIPTS PRO L 1800 TO LUZH 1800,		Total	Total
Meun milmer worked.	Receipts,	Per toda sorted	Mran mileare worked.	Receipta.	Per mile worked	Moun strugg worked.	Total resripts.	Per rulli worked per week.	Mean willings worked.	Total receipts.	Per mile werked per work,	increase in 1880.	decrease to
	Re.	Ba.		Ba.	Ro.		No.	Ba.		Ba,	Ba.	Ro.	Na.
*	u'rus		00	, 4,070	71	86	20,013	80	00	41,100	00	11,100	0000wo

#### TIRHOOT STATE BAILWAY.

Approximate Beturn of Traffic for the week ending 17th May 1890, on 278 miles open.

	COACHIN	TRAFF	1C.	Mano			AFD MIN	BRAL	lane -						TRAPPIC	TRAIN-MIL	20 277.
10 74	Number of passengers.	Coneli			Weight carried,		Recorpts.		Other or (ontique			Tota			Conching.	Marchan- diss.	Total.
		Ro.	A. 1	.   1	Mzs.	0.	Ro.	A. 2.	Ba.	A,	P.	Ba.	<u>.</u>	P.			10
Point tendle for the week	41,667 180	18,910 86	: :	9,5	17,045 534	0	27,630 101	0 0	3,740			46,500 1:00	0	0	4,923	0,660	13,361
Por provious 15 weeks of balf-	365,392	5,95,906	0.0	47,5	14,797	0	5,30,700	0 0	59,883	0	0	9,70,018	0	0	96,169	179,198	275,300
Total for 19 weeks	DOAUGUA	3,31,214	0 (	(0,)	14,300	0	5,74,300	0 0	65,101	0	0	10,61,707	0	0	1,01,111	197,894	340,047
COMPARISON.																	
Potal for corresponding week	67,307	17,561	0 0	9,4	0,197	0	21,06)	0 0	9,001	0	0	65,500	0	0	6,835	A,980	10,000
Par unio of Partwey conversions	176	95	0.0		514	0	17	0 0	20		0	1/10	0	00	904 pas	******	Day 994
Potal to corresponding date of provious year	919,698	3,34,364	0 0	201,0	0,540	0	3,96,796	0 0	74,000	0	0	4,46,007	0		105,385	111,800	\$36,700

<sup>\*</sup> Steam-boat encures excluded in univalating "Total enruings per mile of Stativny."

#### PINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirkoot State Bailmay.

BACKIP!	BURIFFO FOR WHER SUDIFO ROUPTO FOR WHER SEDIFO 15TH MAY 1800.				EEDIPO		mentions and mar 1800 to 19 May 1800.			MAT 1890,		Total	Total
Mann milesso worked.	Kieupto.	Per mile worked.	Mean mileage werned.	Boorlyte.	Por mile worked.	Mean in lieure worked,	Total receipts.	to the worked	Monn cathego worked.	Total receipte.	for mile worked per week.	lacronne (D	dearrase if 1890-91.
	Bu	Bo.		Ba.	Bd.		Re.	Be.		Ba.	Bo.	Bo.	Sta.
573	40,000	177	273	46,690	307	973	8,13,000	348	273	3,99,400	100	06,800	040004

Printed and published by Edwis Mousis Liwis, at the Printing Office of the Bengal Secretariat, Writers' Buildings, in the City of Calcutta, 28th May 1890.



# SUPPLEMENT TO The Calcutta Gazette.

WEDNESDAY, JUNE 4, 1890.

# OFFICIAL PAPERS.

Non-Subscribers to the Gazuttu may receive the Suprament separately on payment of Siz Rupese per annum if delivered in Calcutta, or Twelve Bupees if sent by Post.

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#### PROPOSED INTERNATIONAL AGRICULTURAL CONGRESS IN VIENNA

The 2nd June, 1890.—The following correspondence is published for general information.

REVENUE DEPT. - MIS. F.; CALCUTTA, The 2nd June, 1890.

By order of the Lieutenant-Governor of Bengal,

P. NOLAN, Secretary to the Government of Bengal.

Circular No. 5.7 M & Ex., dated Simla, the 15th May, 1890.

From-J. W. P. Muir-Mackenzie, Esq., c.s., Under-Secretary to the Govt. of India, Revenue and Agricultural Dept., To-The Secretary to the Government of Bengal.

In continuation of the circular from this Department No. 49C of the 19th December last, I am directed to forward, for the information of His Honor the Lieutenant-Governor of Bengal, a copy of a letter No. 311 of the 31st March, 1890, from the Imperial and Royal Austro-Hungarian Consul-General, Bombay, regarding a proposal to hold an International Agricultural Congress during the first week of September next, in connection with the Agricultural Exhibition to be held in Vienna in the course of this year.

2. I am to request that due publicity may be given to the information contained in the Consul-General's letter.

Consul-General's letter.

No. 311, dated Bombay, the 31st March, 1890.

STOCKINGER, Esq., Imperial and Royal Austro-Hungarian Consul-From-F. General, Bombay,

To-The Secretary to the Government of India, Foreign Department.

Wirm reference to my letter dated the 31st August, 1889, No. 990, I am directed to inform you that in connection with the Agricultural Exhibition to be held in Vienna in the course of this year, it is proposed to hold also an International Agricultural Congress during the first days of September next.

Persons intending to be present at the Congress should give notice of their intention, and eventually also of the subject which they propose to lay before the Congress, during the

month of April, 1890.

Before and after the Congress, General Assemblies will be held in which reports will be presented and speeches made, but no debates will take place. At the second general meeting the resolutions passed by the various sections will also be published.

The debates will be held in the German or French language. The Congress will be divided into the following sections:-

#### I.-AGRICULTURE.

1. Agricultural management : agriculture, domestic animals, management of fields,

veterinary subjects, &c.

2. Special branches of agriculture: culture of fruit, wine, vegetables, tobacco, hop, hemp, silk-worms, bees, breeding of fish, &c.

3. Agricultural engineering: organization of the service, draining and irrigation, regulating of rivers, canals, reservoirs, cisterns, conducts, marshes, division of land, buildings, ans of transport, the use of waste-stuff, &c.

4. Agricultural industry: the manufacture of sugar, brewing milts, dairy-farming, &c.

Agricultural education and agronomic researches

#### II. - FORESTRY.

6. Management of forests: generally wood-and-timber-trade, forest engineering, recent researches and experiences, &c.

#### III .- AGRICULTURE AND FORESTRY.

7. Political economy: agrarian legislation and policy, statistics, eccieties, insurance,

agricultural banks, protection of birds, &c.

Intending members are requested to send after the 1st of July next 10 florins or 25 france (£1) to the Committee of the Agricultural Congress in Vienna (1 Herrengasse 13) when they will receive their tickets as members and also a special programme of the proceedings.

Special reductions on the Austro-Hungarian Railways will be granted to members, as also a season ticket for the Agricultural Exhibition. They will also be admitted to the fêtes given on the occusion and to the excursions to different large estates which will

be made after the Congress.

The above-named Committee will also be glad to give all further information on the

subject.

I have the honour to request you to bring the foregoing information to the notice of the respective Indian authorities as soon as possible.

# Rainfall, Weather, and State and Prospects of the Crops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different districts of Bengal, as reported to Government, during the week ending the 31st May, 1890.

	No.	District an		Rainfal at Sudde Station in tuches.	Character of the weather and state and prospects of the grope.
RE	NG.	L.			
		Wastern 2	Districts.		
				90 099	Ter at 1
		Burdwan Culna Cutwa		1.12	Weather—hot; occasional rain. Ploughing going on. Aus and oness are brin sown. Sugarcane and fil doing fairly well. Prices of common rice:—  Bre.
		Ranigunge		1'06	Culna 18 Cutwa 14 per rupee.
	8	Basirone	., 31,	90 2-09	Raniguage  Weather ecasonable. Ploughing and sowing of rice going on everywher Indigo and sugarcane plants thriving. It is estimated that the whole the area under sugarcane has been cultivated with it this year in the Bi sempore subdivision. Common rice selling at 19 seems per rupes at Sudder as 16 seems at Bistenpore.
DIAM.	3	Birbhum Rampore H	aut .	1.88	Weather-hot. Ploughing in progrem. Planting of sugarcane nearly finished Coarse rice selling at from 15 to 20 mers per rupes.
BURDWAF	6	Midnapas	" 81.	90 1-88 3-04	Weather—cloudy. Proquent rain and storms, Preparation of all lands going o briskly. Indigo doing well. Local stocks of grain ample. Prices of common rice:—  8rs. Ch.
ă					Rudder
		08		0.0	Ghatal 14 8 )
	8	Bernmpore Jehanabad	,, 81,	8.01	Weather—cool for the time of year. The rain has improved jute and sugaroance and has been favourable for ploughing and sowing early rice. Prices of common rice:—
					Surampore 18 or 14   Surampore 16   por rupos 16
	9	Howrah Uluberia Centras Dis 34-Purghs.	" 81, ' stricte. May 31, '	3.87	Weather—hot; occasional showers. Crops doing well and agricultural operations in progress in the Bluberia subdivision. More rain wanted classwhere Prices of common rice 14 to 15 seers per rupes.  Weather—very hot. Sowing of early rice and jute finished, and the plants are thriving well. Prospects appear to be good. Prices stationary.
ı					
DIAM.	7	Nudden Kushten Meherpore	., 31, 1	1.58	Weather—centonable. Sowings nearly completed. Rain beneficial to early rice.
		Chuacanga		0-99	
BROIDERCY	8	Ranaghat Khoolna	., 81, 1		Weather-rainy. Land to being prepared for the sowing of ones. And is
2		Bagirhat		4.58	germinating. The heavy rain is said to have done some harm to jute in
J	9	Satkbira Jessora	., 81, 1	. 428 0 0'61	Satkhira.  Weather—hot and cloudy with occasional showers. Sowings of both cames and
1		Jhenidah		1'16	ous nearly over; harvesting of bore completed. Prospects good. The
1		Magura Narail	44	45-433	recent rain has been very beneficial. Price of rice stationary.
į	4.0	Bongong		. 8:40	on the state of the State of the state of th
	10	Labort	., 31, '8	0 0 14	Fine weather with passing clouds. Bhodoi is still being sown, but rain needed in the Sudder subdivision.
		Jungipore	4.	0.19	
	11	Kandi Diangepur	21 1	1:40	Weather-variable. Bhadei and sugarcane and most of the jute sowings com-
		Thakurgaon	13 (41)	0.49	pleted. The area under these crops is larger than usual owing to the favour- able rain. Prospects are good. Price of rice at Dinagepur 17 seems and at Their comments. Research requires.
	13	Rajahahye Nattore	,, 31, '8	9-60	Weather—season-ble; very hot sometimes, notwithstanding occasional showers.  The rain has done much good to the crops, which are all coming on very
		Nowgong	4.5	1.78	mi ante
	18	Kungpar	., 31, '8		Weather—constantly overclouded with frequent thunderstorms. A spell of sunshine and dry weather is needed to allow of the weeds being kept down.
	-	Kurigram Gaibanda	no ha	1-28	All crops look magnificant.
	1	Nilphamari		1.44	Weather-changeable. Jute and our rice growing well. Preparation for comes
	14	Bogra Sherpur	81, '9	3.405	crop going on. Common rice selling at 18 seems per rupes.
MAJORAN BY WIVE	15	Nonkhilla		2:28	Weather-bot and cloudy. Mornings generally cool. Prospects of standing
	1.5	Potes	., 81, '9		Jute has been sown on about 12 arms of the usual area. Transplanting of
	16	Darjoning	., 81, '9	0 1-77	Weather—fair. Sowing of bhades and jute in the Terai atill continues. Land is being prepared for the transplanting of hamans. Potatoes, choic moreus, and bhatta in the hills doing well.
1	17	Julpigores	81, 19	0 2:31	Weather—hot and sometimes choudy. Sowing of Akador and jute nearly com- placed Prospects generally good. Price of rice continues stationary.

	No	District an		Rainfall at Sudde Station is inches.	Character of the weather and state and prospects
				1	
-	DEN	3Al concluded.			
	ĺ	Bastern I	May 31, '90	3-87	Weather—mostly cloudy and hot. Jute and paddy thriving. Chillies being gathered, itain has done much good to the standing crops. Fodder is available. Price of common rice 14 to 16 seers per rupes.
Dagea Drew		Furrordpur	., 31, '90	1.77	Weather—seasonable. State and prospects of all standing crops favourable. Price of common rice varies from 14 to 16 seers per rupes.
DAG		Backergunge	,, 31, <b>'9</b> 0	4.07	Weather—seasonable. Prospects of crops fair. Common rice selling at from 12 to 15 sears per rupes.
	1 2	Mymensingh	., 81, '90	8-57	Weather-rainy and seasonable. Crops doing well. Rice sells at 13 seers 10 chittacks per rupes.
BAT	(*	Chittagong	,. 31, '90	1.07	Weather "seasonable. Sowing of passis and paddy over; prospects good. Lend worm has disappeared owing to recent rainfall. Price of common rice remains unchanged.
HITTAGORG DAYS	22	Noakholly	,, 81, '90	6.81	Westher—cloudy and rainy. Sowing of our almost completed, and six annas of ones on average reported to have been sown. Price of rice stationary.
CRITTE	24	Tipperab	,, 31, '90	2:45	Weather—bright and hot at beginning of week; cloudy, wet, and cool at its close. Ans, cases, and jute doing well. Outturn of bore above 16 annae. Prices stationary.
	25	Chittagong Hill Tracta,			Report not received.
26	HAR	Hill Tipperch			Report not received.
	36	Patna Barh Behar Dinapore	, 31, 90	0.70 1.07 1.92	Weather—very hot; occasionally cloudy. Preparation of lands for bhado: and aghani sowings in full progress with the rainfall of the week. Harvesting of cheese will shortly commence. Mango a very good crop. Prices shattonary.
	26	Shohabad Buxar	., 31, '90 4	drops.	Weather-hot and muggy. Chema still being harvested. Prospects good.
JIAN.	29	Sassoram Bhaunah Durbhunga	., 31, '90	0-29 Nil	Weather - occasionally cloudy with east wind. Young plants of paddy, cheens, junera, and indige doing well. Mang is being collected in places. Culti-
PATHA DITE	<b>3</b> 0	Mosufferpay Hajipur Sitamarhi	,, 31, '90	0.44 V 1.42 Nil	vation of lands for bhados cowings in progress. Prices almost stationary.  Venther—unsettled; very close with easterly winds. Pandy, ckeena, and mung in good condition. Bhados crops promising. Indigo prospects excellent.
	31	Saran	,, 81. '90	1-99 V	Venther—very hot and sultry except when the rain fell Indigo and cheens much benefited by the rain. Ploughing for rice and bhadoi everywhere going on.
, [	32	Chumparun Bettinh	,, 31, '90	0.50	reather—but. Sowing of puddy and bhado: in progress. Cheene and kodo growing well. Prices of food-grains rising to some extent.
1	38	Beguserai Jamui Bhaguipur	, 81, '90 , 81, '90	1.02	Venther—very hot. The rain has done good, but more is wanted for nowing the bhadoi crops. Mango is very plantiful.  Venther—cloudy with some heavy showers. Bhadoi sowings in progress and
18	34	Madhepura		1.19	eccdlings coming up in places. Indigo, as well as paddy in low lands, augar- cane, and mung much benefited by rain, and agricultural prospects generally good.
PORT DE	85	Kishengunge Arrareab	,, 31, '90	0.12	favourable owing to rain. Weeding of crops going on.  Teather—hot and cloudy. Showers throughout the district and the weatler
SEASTLY OR DIVE.	36	Maldah Chanchal Shibgunge Gajole	» 81, '90'	0-98 0-16 0-70	very changeshle. Harvesting of boro puddy completed. Cultivation of bhados and aman paddy is being pushed on. The standing crops are benefited by this late rain. Common rice sells at from 13 to 19 sours per rupec.
	37	Senthal Pergha.  Desghur  Godda  Rajmehal  Pakour	81, '90	1:68 1:08 1:87 0:86 0:8	cather—cloudy, rainy and cool. Ploughing going on. Sowing of makes and puddy has begun.

No.	District au		Rainfull at Sudder Station in inches.	
.18N/	٨.			
1 38	Cuttack	May 31, '90	0.40	Weather-seasonable. Sowing of sarad paddy has commenced. Gathering
89	Ponte		,	tobacco over. Cotton is being gathered. Sugarcane doing well. Report not received.
40	Balasore	,, 31, '90	4:11	Weather—cool for time of year. Season most favourable for cultivation. Number of coolies on relief-works 170.
	NAGPORE.	Agency.		
61	Hazaribagh	May 31, '90	0.60	Weather—seas nable; rather unsettled latterly. Su arcane doing wall. Many injured in places by high winds. Lands being ploughed everywhere. Riselling at from 14 to 20 seers per rupee.
42	Lohardnegs Palamow (un	31, '90 to 20th)	1.16	Weather—seasonable Ploughing and sowing of gors and goosdis centine Bain is wanted in Palamow. Sugarcane appears to be promising.
48	Singbhoun	May 31, '90	0.84	Weather—very stormy; showers on three days at head-quarters, but heavy rain the interior. Sawing of the paddy crops is in full swing all over the district. Sugarcane thriving. A full crop of cotton has been gathered Price of rice at Chybases 18 seers per rupes.
	Manhhoom	,, 31, 90	1-91	Weather hot and cloudy. Heavy rain, which fell in Thursday (20th) afternoon has facilitated ploughing. In a few places paddy is being sown. Mor

Published for general information.

CALCUTTA; REVENUE DEPT., The 3rd June, 1890. P. NOLAN,
Secy. to the Gort. of Bengal.

# Meteorological Report of the Province of Bengal

OH.										61	PATIC	DE OFF	KRVA	TION	8.				
DIVIETOR				AIR	7 E ROOT	nm.	Win	D.					Tuni	PRRAT	URB.				
Marsonolosical E	Distance	t •	Representative	Mean barometric height, 5 A. M.	Mean reduced to	Variation from units.	remiling direc-	Mean wind we.	Highest during		Deser	Lowest during veck.		6	Mean masimum temperature.	Mean minimum temperature of greek.	Mean daily tem- perature of week.	Variation from	Mean, & A.M.,
	Pooree		Pooree Gopupore False Point	29:624 20:607 29:60	29 036 20 037	- '083 - '038	11 28 11 28 11 28	377 439 389	91'7 90'2 98'3	30th 94th 20th	May	79*1 79*1 72*1	28th 25th 27th	May	80,4 81,3	RB 12 12 14 77 1	86 5 85 H 84 B	-1.0 +0.1	0613 19.37 8018
ORINGA.	Outtack	***	Outtack	29°508	29 649	-1038 -1034	BASE	180 2°על	1019	27th 20th	11	75'S	25th 30th	"	99°d	81·0 77·1	80°3	-0.3	87'0
	Balasore South-West Mid	mapore ?	Sauror leisur	19:635	29 461	-1085	Varmble	900	00:7	37th	**	73.8	sath		99.7	78 1	8514	-114	86.2
	Midnapore	maha J	Midnapore	29'511	29'482	'011	В	20318	9818	36th		72'3	±01h	**	96'0	76 1	86.1	-3.0	130
142.	#6-Pergunnahe Howrah		Calcutta	20.648	29-667	-1080	Variable	193	9610	zeth		71.9	26th		88.8	78 8	66 Z	-1:0	38 1
BREGAL	Hooghly Burdwan	100	Burdwan	20"346	2000	- *040	South-	193	9917	251b	10	76'4	26th		93.5	77 H	86 6	-1/8	91.9
WEST	Hanboorn	0000 C7	Bankona	gp1334	\$h.932	- 026	\ nemble	140	100.1	25th	00	89 0	30th	80	95'5	76 4	96.0	- 0:0	82 a
BOUTH-WEST	Beerbhoom West Burdwan	***	Remediates	291338	29.666	- '000	Variable	125	168:0	34th	**	71'8	25th	10	94'6	763	66'6	-8:9	film
Bo	200.	100 04-	Berhampore Kriehnschur	29 613	29'641	- 036	ESE	10019	97:3	24th 24th	44	78'3	201h	11	93'4	70.4	84'4	-21	799
		}	Jeneory	391642	E9 676	'4.36	Variable	61.7	9616	nath	to	75'4	24th 4		93.3	76 0	64°P	-1 6	81'6
	Khoolna Chittagoon	)	Chittugons	รษาตาช	25°708	-1063	asu	190	987	24th	**	760	30th	Al II.)	90*4	76.6	830 5	+0v	alra
		Tracts	Demograt						Obnor	rations	not re	sociend.							
PAE.		a tel	Barries   Neakholly	201670	29/702	000	Variable	88 9 188	89.9 89.3	25th	27 th	78'4	soth soth	9.0	8612	76 0	M319	-0.1	60 2 H171
BRYGAL	Nonkholly Parroadpore	-00 01	Parrentpore	29 655	2V 15V8	023	Bouth-	95	94.5	such	May	76°V	21tb,	25th M ()	89 1	70'3	82 a	-1.1	509
RAST	Ducca	0.04 D.0	Dacos	29 anu	20,494	- '634	Variable	19413	9-611	gath	**	73 3	Söth,	Mas.	6919	75'4	55.7	-1'9	613
	Commilinh		Committal	23/14G]	29'607	-1098	EAS	171'6	96 3	Sath Sath	1 0	72 *	asth asth	**	89 7 63 31	76'1 76 h	12314 128 L	-1.2	113
		200 227	Mymonath	29/661	29167.11		Ba E	120 3	1/015	1		71'6	toth	**	87:6	70.7	617	-0:7	00 S
i		998 111	Sernjeunge .	29'630	<b>20167</b> 6	- 046	E	1661	58.9	1 dash	94	72 ::	25th	6 4	49.3	78 3	163.2	-1.1	10.2
240		*** 20*	Hampers Beats	291007	29'677	-1000	Bouth-	907	94.5	Sith	0.0	74.6	auth		81.9	76 6	เลีย	-17	8813
Ban	Maidah	100 101	Maidah	201509	291682	- 10ub	E	43:6	9411	26th 26th	13	761	atth.	zarb.	92 4 60 7	78-7.	8871 887		82.4
NA.		000 44 084 11	Dinagrepore	28.983	29 700	- 495	B	96.9	Do 14	2482	**	73 5	25th	May	9012	75.1	80.7	-1:0	50°E
2	Julmgoree	}	Julpagoree	2+1400	29.197	- 944	,	9	91.9	25th,	ghth	781	zeth,		9012	78°b	81.5	+11	90.6
•	Cooch Behar Derjeeling Bill T	raota	Dagasting	22:886	_	012	Variable	87.3	68:6	25th,		52 1	26th	May	68 0	8816	28 8	+6.4	5615
. (	Paynesh		Furnesh	21 460	291486	—.0fW	Bak	107'8	9617	teth	May	100	auth	**	905 D	70'2	88 4	-71	101 2
Runan	North Bhagulpos Mosufferpore	10 2	Morufferpure	23:140	:91636	010	RNE	24714	100.8	24th,	25th	797	35th	+4	9619	טיע?	87'4	0	51'0
22 1		100	Durbhanga	291495	20 063	-:024	PNE	15716	109 6	246h,	May Satu Jung	. 7	1		95.9	7	7	,	5010
None	Champerun		Motihari	291686	201663	- 604	182	253.3	30.3	266h,	Binj	71 6	30th	20	94.9	76'2	8512	-1.2	617
			Chupro Dehroge	291264	29 62a	- '038	B B	189-2	110%	2.1h	11	70°3	276h 21, 27 27th	00	36 G	77:1 79:4 75:3	141.2 141.2	-8°3	6314 8917
41	Shahabed .	{	huzer Aresia .	39-411	29 du 5	-1042	NNEA	77 6	100 0	26th J	May	GU:7	27th	0.0	63.1	75 4	82,1	-90	15 7 15 18
Banas	Gya -	•• gu.	Gyв .	197343	29:619	-1636	B	17810	1001	25th	0.0	71.0	97th	194	100 to	0070	98'4	+1'6	863
	Parna Benish Hhagulpor		Bankspore	20.910	29'624	046	B	19314	103.8	25th	.,	71°2	276h	**		7716	86.7	-0:3	68.9
Socs	Munghyr .	3	Banguipore	39-103	29 652	1014	Samehta	9017	100'8	16th	e man	71'0	27th	**	9814	78 2	83.8	-3.9	80:5
.: (	Hamribogh		Doomaa	20-103	20:661	090 090	Variable Variable	265'8	101'7	25th d	May	8918	23th	**	95'5	78'6	94°4 57 9	+0.4	6179
NAGRUE.	Labardugua		Ranches	27:540	29 634	080	South.	190'8	100.0	24th	"	70'6	80th	40	87.4	79'3	88:3	-1.9	01.3
125	Singbhoom - "		Chyshama	78:866	21/1626	'663	Variable	6710	108:3	tath	184	76.7	201h		8019	78'3	1973	-\$17	83'1
1	•		Bibingar	29:401	29'787	012	Variable		96 1	24th	**	74'0	#76h		90.1	76 0	11.89	+1'9	7913
Anna	Assats	{	Dhubri	29°577 20°606	29:694	1054 1058	NE, ENE	117'8	9315	241h	-2.0	78:3	25th		89°3	75'0 74'H	88°1	+1'8	7919

\* Mean for five days. ; † Mean for six days.

The hormal means of air pressure are troughquire are the attainment of the reading during the same period for the last.

This hamilding it has atmosphere as expressed at percenter, and two parts are the attainment are say is denoted by cand an overcoast sky by 10. The numbers are the numbers because or average of the reading means of the destroy of the subdivisional statem for the period in question during the pro-

for the week ending Friday, the 30th of May 1890.

							DISTR	IUT OB	BERVATIO	NS.				
110.3	orant sk.	2						Rati	FFALL.					
hunsidit.	93	Weel	OBA	TREE.	Sinc	on lat of mor	ıth.	8100	e 15:h May	1890.	nourber oaft.	number days.	Rapresentative etation.	DISTRICT.
Average at 5 A.M.	Average cloud at 8 A.M. for	Rainfall of week observing station.	Mesa for destrict.	Normal mean.	Mean for district.	Normal mean.	Variation.	Wenn for district.	Normal mean.	Variation.	Average no of ramy or	Normal un of rainy di		
87 87 80	7-7 2 H 7-7	0147 0137 0196		148		8.64			1:60			1'6	Poores Hopsipore Pains Point	} Pooree
60	7'4	0.81		1*20	*****	8:36	. a vinn	448	191	+170	4-0	2.1	Outtack	, Cultack
19	0'4	6161	2-13	3166	#.08	4'00	+ 0.25	4.10	2:40				Balusore	South West Modnapore
84	811	1.18	1:89	1/31	7:42	4.70	+2'72	6.3/7	2.17	+ 4:80	60	8-1	Sauger Island	A STATE OF SALKINGSOR
79	8'8	1:66	2.02	1-17	655	4:97	+ 1'55	620	191	+4.50	8.0	2.1	Midnapore	. Midnapore
68	7.7	1'88	8.80	1169	6106	6 56	+ 0.90	B183	2:51	+3111	3'7	3.7	Galcutta .	Howrah Hoophly
79	91	0.85	1'18	1108	8:16	6'97	-181	2 83	2185	+0'24	2'0	212	Herdway	N
Bì.	0'4	3.09	2101	2:18	4 45	8'88	+0'47	4-63	1.89	+2.16	5.8	7'3	Hankoora	Hankoora
19	419	1.68	1.20	1'09	1:87	3.59	-1.48	1:77	1782	-0.00	8.4	3.8	Rancogungo .	West Hurden
96	9:0	0.14	0'72	3189	8,20	P-03	-173	2'50	273	-0.34	210	214	Berhampere	Moorshedabad
	7.9	3.56	1.92	2:07	4'38	6:14	-176	8 67	3'31	+0*36	3'0	3.6	h rinhmaghire	Nuddea
<b>5</b> 8	716	0190	2.20	1199	6.11	6109	-0.99	4 66	3115	+1'45	811	3:0	Jensore	Khooina
	7.0	1:35	1.90	2 611	2.13	9187	-5 63	3.29	4182	-1.53	3 3	218	Chittagong	Chitteense
- 622			6'67	2 10	8*63	9'14	-0-51	<b>d</b> 100	3.68	+9'21	0.0	3.2	Damagiri	Chittagons Hill Pract
13	6.9	4109	8'81	21.5	6 34	7148	-1:09	6:43	3164	+ 2139	318	3 1	Barronl	Backergange
84	3'0	4.08	4130	2140	8 40	9*93	- 1.46	5186	41811	+1'55	4.5	314	Nonkholly	Noakholly
86	66	0.87	1'07	9184	5'87	8:35	- 5.88	3190	4108	~ 0'88	3.7	3.0	Furresdpoor	Farreedpore
83	8:1	816.	4100	2128	8 75	8 54	+ 0124	0.10	3.28	+2141	410	3 1	IFEOGA	Dacon
78	• 86	8:38	8 17	2137	8-10	9.73	- 0*63	4103	3 83	+0.78	\$'5	3.9	Commillab	Tipperah
80	7.1	4.01	3 37	2114	9178	W135	+0139	gred :	4183	+1'35	316	3 3	Mymountagh	. Mymensingh
87	2.2	2'27	1.63	2 & 4	6.90	7:43	1 43	3.91	41:0	-0.50	818	3.0	Bogra	Bogra
82	6.3	2.81	1104	\$162	6108	6'92	+0.04	4:57	3 6-8	+0'03	\$10	26	Serajguage	Pubna
36	81	0*97	30;	1'23	4.62	\$100 4124	+0.41	1 42	3.23	-0.14	2'7	2.0	Haidab	Maldas
85	46	1-03 0'27	1.76	2:31	6100	5°36	+11147	3197	3.63	-0.39	2.0	2.4	Dimmepore	Diustanore
10	2:3	0'71	1'65	3.77	0.47	10:71	-134	4.05	6:87	- 8°8∂ ·	3.3	3.2	Rangpare	Munepore
83	14		8:22	4'84	7:80	12:81	-6.31	3 98	8:10	5 08	5:6	816	1.1	Julpiroree
98	7'9	. 77	1.87	8163	G148	10 67	-2.80	3 51	6 37	-2:86	3'8	418	Darjeeling	Darjeeling Hill Traci
82	6'1	1'96	0'72	1.95	8'57	ø 61	1'0+	1:00	2'70	-0.71	1-8	1.0	Purneah	Purneah North Bhagulpore
	67	0145	0.03	0183	sidu.	2 00	+1/16	1.28	1:33	+0.42	1:0	12	Monufleepore	Moznflarnova
80	5.4	0108	0.02	0'76	2,21	2 56	0123	1 20	1'83	-0.03	0.7	0'p	Durahunga	Durchhanes
74	810	4139	2150	₩°75	4103	8:59	+1'07	3.72	1138	+2'37	8.5	16	Motthari	Chumparun
74	2'7	1.80	1.67	#°75	2109	1198	+0'11	1167	1'08	+0.59	1.7	1.0	Chupra	Sarus
40 61	1°1 3°6	Nil	0.11	0166	0°71	1'31	-0°50i	n 59	0.88	-0.50	0.0	Q Ý	Dehree Buzur Arrab	. A Shahahad
70	2'9	\$163	0.68	0.6.	1784	1.74	-6'38	0.01	1 33	-0.43	0.8	1.0	Gyn	Gyn
78	4.6	Drop.	3.19	u'isi	5.01	2:00	+0.91	1:30	1.43	- 0.13	\$10	1:1	Bankipore	Patna
88	7'0	1.20	1.23	0.14	3:21	2 33	+ 0 89	2 04	1149	+ 0153	8.3	1.1	Bhagulpore	Sonth Bhagulpere
78	913	1:83	1.10	1.24	2:08	8180	-0 42	2:14	210	+0'04	818	1.7	Doomka	Southal Pergunnahe
63	914	U 75	0.97	120	0.214	2'43	-1'49	0164	1189	-0.88	1'6	1'8	Hazarthagh	Hearribagh
03	8'6	1:09	0.24	116	1183	8.4% . 3.50	-0 68 -0.8	1:35	1:67 1:81	-0.03 -0.03	1.7	8.1 5.0	} Ranchi	Lohardugga
64	81	0'33	9184	1.40	4100	6*08	-0.65	1 2190	2168	+0'41	8'0	119	Chyobanua	Singbhoom
90	911	0'94											Sibengar	
88	810	1' 12											Dhubri	Ases:
845	819	4:19											Silchar	1

ton years. The variations are negative when the mean for the week is less than the corresponding northal mean, and positive when greater, densing cloud amounts remarked the part of the say covared, the whole sky being denoted by 10. Under the head District observations of rainfall the normal means of the control when the part of the say covared, the whole sky being denoted by 10, then the district, i.e., from social rainfall at the subdivisional angular required average of the control was the district. The means of the state of the subdivisional at the subdivisional state of the stat

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890.

8					R	AINFALI	L.			To	JAT				
Mateorological division.	District.	Station.	Spinrday, 24th	Sunday, 28th May.	Mouday, 28th May.	Tursday, 27th	Wednesday.	Thursday 25th May.	Friday, 30th	Number of	Rainfall of	Total rain- fall attice lat of month.	Average total rain- tall from tat of mouth.	Total rain- fall since 16th May 1690.	Average rainfelles from 18th May to date.
Ouzna	Poorse	Poores Khurdah Banpur Enise Point Gor Satpara	******* ****** #####		0109	0.75	0196	0.30 0.81	0.03	2 2	0°40 1°87 0°98	1184 8180 9183	2158 3150 3177 1	3:81 3:81	1'60 8'10 6'86 2'86 2
	Cattaob	Jagatamgpore Banki Cuttack Kundrapara Jajoure Dharmadla Salspare		000 P*	0.00	e-91 0 i3	0.30	1:20 6:03 0:18	*****	2 2 3 3	1°64 0°40 0°44 0°70	3123 5173 6109	9:95 3:40 4:3 g no	0:62 3:61 3:03	1'30 0'93 2 64 3'60 2'60
	Balanore	Chandbali Bhuddruck Norsh Balasore Jeliasore Raripodab	0.10		0.08 0.125 0.75	0720 1730 0714 0781	0.37 0.37 0.37 0.37	0°80 0°80 0°80	0:23 0:80 2:81 1:50	5 6 1 4 4 3	0192 3140 1130 4111 5104 2100	6105 6127 6120 6120 6 163 6 72	6'96 5'15 5'19 4'85 3'18 6'80	3°93 8°67 4°30 8°43 8°74 8°57	9:42 3 03 3 16 9 8 do 1:57 3:04
Supeal.	Widmspore	Contai Saugor Island Tumicok Mainaporo Ghatiai Kukwahaty Garbetta	*****	0.48 0.6; 0.68	0°38 0°50 0°71 0°55	0.11	1187 0146 1186 0150	0.59	0*81 0*6* 0*40 3*50 0*34 0*19	5 4 5 3 3 2 3 2 5	8124 1119 2170 1162 0175 2105	10:00 6:00 9:20 8:81 4:36 8:80 3:30	4150 4154 4192 4199 5 0 3	9:88 8:64 9:00 6:31 4:29 4:03 3:39	2 07 2:31 3 27 2:46 1:02
,	26-Pergunnaks	Diamond Bar- bour Counsing Town Alipore Jail Barrackpore Dum-Dum Raraset		0'37 6'35 0'N" U'23	0'04 2'04 0'35 1'20 0 31 1'30 0'14	1*:3	6"28 0:48 0:01 0:27 0:21 1:44 0:75	0.08	0.05	20 0 12 14 15 14 18	0158 3190 1141 2127 0114 2144 2118	6182 4189 470 8189 3 48 0178 6138	5°06 ? 5°33 5°13 5°24 5°46	5'43 3'nd 4'19 4'48 8'16 8'60	2*16 ? 2*38 2*11 2*71 2*67 2*65
	Howmh	Howrah Mohesreka	-11 -00	0:32	0.12		0.1u			3	0°77 3°87	3116 5186	9.11 9.13	8'61	2°15 3 46
	Rooghly	(Octoberiah. Serniapore Houghly Juhannind	100 ver	0142 0144	1'31 0'8 0'45		0.18	687 890 883 284		25 PA 24	1'91 1'43 1'50	8:44 4:33 8:14	4197 6168 6109	4'17 3'19 8'08	2198 2148 3167
	Sgrdwan	Cuins fordwan Cutwa Hancegungs .	(10-00	0.48 0.48 0.48	0:90 0:53 1:03 1:01	######################################	00477* 107404 005 01	499-4- 49 40 40 40 40 40 40 40	0.01	25 25 26 26 27 28 28	1°12 0'04 1'60 1 68 3'66	3°n8 2 1% 3°47 2 45 6°16	4'57 4'91 5 10 6 Ds	2.65 2.77 3.47 2.68 4.14	2°22 2°74 2 06 1°81
	Rankogra	Bankoora Bahenpore Maliara Khatra Indua Ketalpore Anda Gangajalghati Kaspore	-00 481 -00 481 -00 481 -00 481 -00 481 -00 481 -00 481	0.02 1.47 0.30 0.50 0.53 0.43 0.43 0.20	0'80 2'00 0'36 0'18 0'46 0'52 0'60 0'94	0.23	000000 000000 000000 000000 000000 00000	### #### #############################	1'65 0'33 1'64 0'94 0 02 1'65	70, Co vs Set set 10 to 10 to 10 to	2°00 3 A0 0°05 2 01 0°77 1 60 1 '03 2 190 1 '26	6'81 6'58 1'50 3'52 2'73 6'87 3'01 6'65	3: 66 4: 3: 4 2: 2: 4 3: 5:0 2: 5:0 3: 5:0 3: 5:0 3: 5:0 3: 5:0 3: 5:0 4: 5:0 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5	4°61 6°58 1°50 8°32 2°73 4°87 8°50 3°01 6°43	2:05 1:47 1:08 2:04 9 9
	Hearbh=01m	Hh. Soory Hetampere Hampere Haut Hulpere Murarai	0°18 0°29 1'03	0*86 0*34 0*72 0*34	0.03	61.0 1900 1800	000 -	**************************************	**Q**** ******* ******* *******	20 Ot 33 90 M	0160 0167 1164 1119 0103	1°14 1°03 2°78 2°78 2°28	3:48 3:02 3:67	1 00 1 03 2 44 2 76 1 63	1'86 1'65 1'90
1	Na4d-a	Rauaghat . Kisinachur Che-adauga . Helierpore Konstitus	0°74 0°77 0°45	5.10 0.31	0.10 0.10 0.10	B.o.:	0.75 0.86 6.75		400 y. ./3340 /41 001507	3 4 4 9 2 2	0.04 2.70 0.00 1.3 1.98	2 191 5 27 4 5 k 2 11 d 6 7 o	5:00 5:50 7:47 5:53 7:03	2:41 6:17 8:57 2:15 6:08	2°71 2°61 6°20 3°63 8°96
	Khooina	Satkhira Bagirhai Kumuma Nakipora Rawpai	0*48	U*B6	0°50 0°64 1°67	1.03	3143 3186 0196 1185 0199	υ·72	0'61 0'27	2 2 3 6 6	6'23 4 38 2 19 6'81 2'80	8:30 6:15 5:78 8:84 6:96	6:21 6:22 6:02	8:00 5:53 4:83 8:86 5:61	273 316 276 P
	Jesecto	Namii James James dah Magasanh Bangong	0°50 9°88 0°90 0°90	0°16 0°23 0°77	0.10 0.08	0.04	1°06 0°35 0°23 0°23 2°90	0.10	**************************************	6 6 8	2:21 0:30 1:10 1:90 8:40	8'08 5'28 4'38 6'26 4'00	6.70 7:33 0:34 7:73 8:86	0'84 2'03 1'72 4'52 4'60	2:85 3:44 3:37 3:93 3:93
	Moorahedabad	Kandi Beshampore Leitagen Aanmennge Junipore Lahrein Jinyange Akke quaj Potkaiari	0.34	1°08 0°18 0°57 0°63 0°63 0°66 0°93	**************************************		0°16 0°18 0°18 0°18	0°63 0°85 0°33	00 111 00 111 000-18 000-18 048-00 13000 000-19	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1:40 0:14 0:73 1:22 0:15 0:65 1:17 1:68 0:60	810 170 8 03 4147 4140 6 83 4 71 8196 130	4*41 5*73 5*20 4*81 6*81 5*54 P	1'72 0'81 1'46 6'67 0'80 6'42 4'44 8'80	2:45 2:P2 3:12 11:50 2:14 8:20 1:
RAST BERGAL	Chistagong	Cos's Bazar Chittagong Kututetes Suth says	0.52	0*84	3110 0128 0 32	0.07	0168	0.88	0.38	3	2:08 1:07 0:67	41.6 81.60 4187	10108 9108 2	4°80 1°78 3°53	8°14 4°48 ?
	Hell Tracts.	Kuma	0.90	0°6a	1.4	0171	0.70	0131 0183	1.76	8	6.12 9.41	6:91 16:34	9:79 8:46	4 40 7:09	4·16 8·60
		Patuakhally Perezapore Burrasi Bhata	000-90	**************************************	0°15	0.11	1'60 3'64 3'13 1'74	1160 0180 0183 8186	0.21	3 2 4	3'20 2'63 4'67 8'33	8.06 6 Gt 7 un 4 ds	7'83 7 04 7'71 7'11	6:05 5:01 6:13 6:35	9.38 9.34 7.34

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890 -coatd.

					P	AIFFAL	L.			To	TAL.				
Meteorological	Uintriot .	Station.	Saturday, seth May.	Sunday. 28th	Monday, 26th May.	Tuesday, 27th May.	Wednesday,	Thursday, 20th May.	Priday, 20th May.	Number of rainy days.	Reinfall of	Total rain- fall since lat of month.	Average total rain- fall from 1st of month.	Total vain- fall since 18th May 1800.	Average rainfall from 18th May to date.
Int BREGAL		Gourneddi Bouphai	1:08	440000	0'46	*****	1'06	1'30		4	2.03	7100		874	5.5
7.3	Meabhelly	Nonkhothy Pantry Harishpers Remeans	001001 01100 11100	001220 002777 014794	0°83 0°71 0°85	0.30	0'53	2°73 3°46 1°60	0 06 013	6	7:09 6:51 2:02	#165 8:34 8:36	20:24 10:24	90°8 18°9 88°8	4:26 4:21 ?
	Ynrundpore	Madaripore Furrecipore Goalundo	0 50 0 97	0'03 9'40	0783	0.50	0'70 (r'04 0'49	316 0 0118	200000	2	3'70	5-78 5-17	9°18 8°86 7°42	4:97 3:06	4°17 4°56 3°51
	liaces	Munshigsinge Ducca Naraingunge Munickungs Joydebpore	******** ******* ******* ******	1.72 1.45 2.01 0.78 1.10	0°08	1 17 0'16 0'55	2:21 1:42 3:07 2:04 2:41	0'54 0'24 0'24 8'00 0'61	**************************************	4	5.62 3.57 8.46 3.04 4.2	9186 10185 9 51 6147 10180	9'08 6'63 7'59 8'54	6-89 5-82 8-34 5-14 6-75	\$168 3191 3195
	Hill Tipperab Tipperab	Agartola Comilla Chandpore Hrahmunbaria Romehandra	010100 000100 0001110	0'07 0'70 0'11	9105 9105	0°14 0°33 0°70	0.21 3.10 0.44 4.14	0°80 1°33 1°00	0 95	5 5	4*96 2*65 4 05 2*17	11'92 8'12 8'07 9'19	10-20 9:87 6:31 10:34	9.24 9.54 9.54	2'82 4'07 2'92 6'60
		Nosirnagar Daudkondi Kasho Lakekom	0.19	0.10 0.20 0.20 0.20	oree oren 1106	0°93 2'00 0'60	1'87 1':0 2'40	0°83 1°15 0°95	0.02	5 4	2'84 2'70 1'37 3'99 6'56	18:05 4:47 12:38	,	8*07 4*15 8*60 4*84	P P
	Mymenatra h	Kinhopartines Atia (Tangari, Mymetatingh Jamalpore Nameleina Subornakhali, Durgapore	41000 41000 10 100 100 10 40114 800 114	1*04 0*60 1*02 0*80	0.88	**************************************	0°84 3 th, 1°9 2°8 2°00 1°71	0°33 0°18 0°45 0°16	0°06 0°71 1°0	8 8 2 3 3 3	3'10 4'03 3'87 8'38 2'58 4'10	7015 10:56 9:43 9:01 8:11 7:95	10:59 8:89 10:59 8:89	8-16 7-43 5-63 8-61 8-11 6-65	4'81 8'46 A 55 3'95 A'A6 P
		Sherepore Town Downing any Pubna	1:00	0'75	000 000 000 000	**************************************	2140	1:10	0188	9	88°B 1°00	11'50 8'94	8:74	4'21 8 64 2'6:	\$*65
House Persons	Rojer	Straggunge Shorepore Nowkhills Hoggs	**************************************	0°68 0°54 0°74 0°70	*****	0.81	117 8 018 214 3195 010	909700 909700 648771 497708	****** *** *	2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2 28 1 63 2 2 2 10 0 8	8°25 6°29 9 73 4°62 5°37	7'10 8'17 6'45 8'-8 7'00	8*21 8*29 8*70	8*63 6*76 8*25 6*36
	Bajahahye	Panelphibi Bandeah Natture Naogaon Laipore	0°17	0.00 0.32 0.18	0'16	0.42	601 1 818 9100	00 444	0'80	3 3 3	079 375 - 1775 1730 191	8160 7138 613 4186 3192	8*19 6'dd 4'97	3°33 8°25 6°60 3°63 2°61 1°64	9.20 2.84 3.43 1
	Maldah	Maldah Chanchal — Gajni Sibgonj	0.10	0:03 9:14 6:20	**************************************	******* ******	1*48 0 4 0'5 0'1	*******	*** ***	3 2 1	1'63 0'94 0'70 0'8	4.75 4.85 8.47 8.48	\$18 t 4160 7 7	3:25 1:60 2:03 6:64	731 230 2
•	l'imagesport	Mohadel pore Churamon Raigunge Dinasspore Haleogrhat Thakoorgaon	071	1.18	000000 00000 10000 10000 10000	0°98 0°95 0°10 0°10	018 1119 015 1125 0186	0.81	013	4 1 2 3 3	2:80 1:10 1:39 1:61 1:46 0:62	8'99 8'11 4'40 8'24 6'16 8'43	8 % 60°3 8 % 6 7 8 5 7 3	2780 2705 274 5'00 8'93	3 11 3'43 8'41 9'51 4'70
	Rungpore	Banwanigunae (Oyabanda). Rungpera Kurigran Bagdogra	0°04 0'84 0'87	1 86 0 14 0 18	490+00 40 404 4-1404	0.04	0.80	0.14	V*70	3 3 1	\$148 1799 1766	10 44 8 74 6 94 7 75	9 95 13 19 11 13	6'82 2'87 3'26 8'63	6°08 7'88 5'01
	Jaipinulus	(Nilphamari., Dispers Julpinerse Alspers Door Fallacotta Dehiganj	1:11	0.99 0.90 0.88	0°03 9'05 9'05	0.16 0.75 0.16 1.83	0.25 0.3n 0.35 0.35	0.03	0°11 0 th 0 th	5 6 5	2'80 2'81 3'11 1'17 2'06 2'08	0°64 6°37 4°72 9°71	11.37	7'84 8'82 8'20 2'13 7'01	7 7 0s
	Cossh Heks	Bhagatpure (Nagrakatia). Dinhasta Conch Behar., Michilpurura, Manisharaga Buza Stinguri	0°29 0°03 1°00	0'81 0'15 0'20 0 80	0°01 0°0; 0°10 0°01	0°45 0°45 0°07 0°18 8'67 0°13	0°11 0°18 1°14	1°20 0°73 0°74 0°04	0°88 1°12 6 0°74 0°55	6 6 6 7	1°16 a°17 3°66 3°40 1°97 3°73 1°77	6'40 6'08 9'76 7'14 7'09 9'45 6'98	18'90 14'30 11'49 1x'16 8'20 6'26	8 46 8 70 8 74 8 35 2 90 6 10	8:03 0:45 8:00 8:36 33:37 6:46
dolla linnan	Purseal	Barneline Kalimpoi g Kimuolig	0°94 0°03 0°12 9°72	<b>0</b> *70	0.30	1.49	0-17	0.52	0.02	7	0.13 0.13 0.13	2:48 9:96 3:46 3:67 3:86	5 84 5 45 3 97	1'03 0'78 0'98 3'13	8142 7 3142 3 93
	Norsh ithugul-	Furnesh Gondworn Belerempore Monori Kolingenj Maddapure	013	0798	0 0 100 124770 000000 00100	0.17	010-84	400.00	000000 000007 000000	1 1 1	0'84 0'84 0'88 1'15	1*74 4*86 3*30	8.80	2'0.5 1'94 1'10 2'80	2145 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
	Durbhungs	Protabpanj Tajpore Imrhaunas	00-000 00-000 00-000	******	000 = 00 000 = 00	0 31 0'35 0'06	**************************************	990 - 5 + 0 000 - 6 + 0 300 - 1 + 1	000000 000000 050-10	Nii	0'37 Nul a'35 0'44 Nul	1.08 1.08 1.48 5.30 8.19	3.86 3.40 5.38 \$.90	0°56 0°56 1'53	1'09 1'24
	Meanflerpore	Hadinbani Habers Bushers Bitamarhi Mosufferpare	000 000 000 000 000 000 000 000 000 00	410 + 00 030004 400 + 41 412 + 118 534 + 196	\$90000 981119 400007 -02845 120101	0'25	##*****  ##*****  ##*****  ##****	000 144 300 144 900 144 000 144	0140	Nil Nil 2	Nit 0.18	2:40 1:45 3:89	2'61 2'73 1'90	1 168 1 8 21 N il 1 79 0 185 2 186 6 63	1748 1748 1722
,	,	Pare Mahas Bushar Pauri	*****	400300 00: 40 10:000	105000 140 *40	88.0	390 1	-00104	0.00	Nil	0 65 0 1/30 Nil	1°65 • 3'53	7	ั เลย เกลา	P P

Statement of Rainfall in Bengal for the week ending Friday (8 a.m.), the 30th of May 1890—concid,

4			-		1	AIFFALI	lao			Por	AL.				
Metaprological Division.	District.	Station.	Seturday, 94th May.	Sanday, 20th May.	Monday, Seth	Tuesday, 171h May.	Wednesday.	Thursday, 38th May.	Friday, 30th	Number of	Rainfall of work.	Total min- tall since lat of month.	Average total rain- tail from let of month,	Total rain- fall since 15th May 1890,	Average rainfall from lath May to date,
NORTH BREAK -concluded.	Chumparun	Motihari Bettiah Begaha	0.67	00000 000110 00015	0.14.00E 17.0 0.001.00 0.001.00	4'74 0'88 0'88	0.08 0.38	000 000 102 000 102 000	0°05 0°03	9	4:79 0:30 0:61 1:60	7'09 1'60 0'78 8'97	3.82 8.62 3.83	6.49 0.01 0.01	1'65 1'26 1'27
SOUTH BREAK	States	Gopalrume  Sowan Chuprah Buxar Delirue Bhabooah Sameram Arrah	beaves annous unaged onnous annous annous	#20010 ##15- \$90000 ##15- \$00000 ##15- \$00000 ##15- ##15- \$00000	1*19 1*90 000000 000000 000000 000000	1'90	000	0.000	0110	2 2 1 1 NR NO NO SH	1:80 1:31 1:00 1:24 Nil Nil Nil Nil	1:64 1:71 8:91 1:00 N:1 1:11 0:47 1:81 N:1	2'66 1'74 1'54 3'01 1'42 1'13 1'17 1'78	1'80 1'81 1'10 1'84 Ni Nil 0'2) 1'44	8°2, 8°04 0°35 9°06 2°13 9°16 8°18
	<b>078</b>	Auvengalind  Gya Nowadah Jeharabad Areal Daudnagar Mhorrphati Rajauli Rajauli	000001 	**************************************	andoso poddbe anddad ogneso anddad ogneso anddad ogneso	0142	2000	\$66.00 000.00 000.00 000.00 000.00 000.00	0130	NII NII NII NII	0'34 N(1 0'42 1'95 0'50 0'37 N(1 N(1)	0°34 0 90 2°18 2°38 1°84 0°87 Nil Nil 0°38	3 167 1 163 1 197 3 150 1 197	0°36 R°11 1°03 2°26 0°87 0°87 Nil Nil	8 fax 8 fax 8 fax 8 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 9 fax 1 fax
	Patno	Patna or Dimpero Rohar Bickron	000 *00 000 0x 	000 500 000 000 111 01 112 00 00 100	000000 103444 000000	0.50 1.84 0.24 1.64 8.49	1.07	\$00 to 0 000 to 0 000 to 0 000 to 0 000 to 0	000.000 00111 000000 000000	1 1 1 1 1 1 1	6-20 1-24 1-07 6-70 1-06 2-25	3°59 3°25 1'07 1'95 1'06 1'86	8:21 1:67 8:21 8:30	1:67 1:93 1:07 0:70 1:04 2:33	1782 1722 1765 1741
	Monghyr	Begooserai Monshyr Jamui Gogri Shelspure	00000000000000000000000000000000000000	0.83	0°25	1 '99 1 '06 0 '65 0 '77 0 '30 0 '85 1 '03	0'16	>00.020 000.020 000.020 addord 000.000	000-000 143-00- 1001-00 25-7-07 200-000	1 1 1 3 3	1°06 1°06 1°06 6°77 0°36 1°36 1°36	8*40 4 18 1 20 4*39 0 30 4*47 4*31	8181 2106 2107 1 1 2165 2165	3.81 3.80 1.70 1.70 1.70 1.70 1.70	113 211 113 1 1 1 116 116
	Bouthal Por- gunnaba.	Rolgone Bangaon Rajmekal Godda Pakour Nya Documba Deoghar	0°20 0°11	0°80 0°85 0°04 0°14 0°11 0°31	0°06 0°43 0°43	0.20	0°96 1°15 0°20 1°33 0°50	000000 000000 000100 000100 000100	120 had	1 4 8 9 4 8	1'86 0'86 1'87 0'85 1'83 1'83	8-93 6-75 6-75 8-56 2-09 1 91 2-10	678 8187 6185 8185 8186 8188	2:10 2:15 2:15 1:41 1:41 1:41	2'3 1'3 2'7 2'0 2'14
CHTMA HAS-	Cameribogh	Manthet Pachamba (Gtridi).	000 000	0785	0.14	0.01	000-00 000000 001004	\$50 ton :000 pon 	0108	1 6	0°52 0°47 0°48	1.77 0.84 1.88	2.10	0' 52 0' 50 1'30 0'96	110
		Bentagurah Mahudi Hil s Jhoomra Hilis Barhi Chatra Karapdaha Hamphar	000000 000000 000000 000000 000000	011	0.00	000 + 000 > > > 0 = 000 + 000	**************************************	9'10	0°56 0°70 0°18	No.	0166 0184 0170 078 2140	0°40 0°77 1°70 2°03 3°90	#:27 119 8:88	0'46 201 0'44 0'80 2'02 2'63	1'6' 1'6' 1'6' 7'
	Loharduggs	Lohardungs Ranchi Palamow Silli Balumat Eosseinsbud	######################################	9°16	000+04 +12 +0 -10 +	0:30	***************************************	G-78	0°17 0°33 1°40	7611 4 1 2	Nii 1:29 0:31 0:45	0°76 3°27 1'44 3'80 0°15	2168 2106 2139 9	0°35 3:37 1°49 8°30	.20 19 10 9
	Singbhoom .	Christian Chakrashar- pore. Shateilla	<b>J</b>	0%	0.74	0.09		0130	0.62	3	0'84	6°00	4'08 7	2100 310A	314
	Manbheom	Reharagura Purulis Golundpore . Laphunath-	0.08	0.38	1'86	0.12	enther	40 400 40 400	1.49	8 8	1.40 1.61 1.61	8197 6199 8186	3'37 1'87	2777 2777 2109	111
	1	Burrabhdum Jhaido	-18-19 24130 -00011	0.33	6.33	******	150 484 - 98 - 88	1'06 0'75	9-06	2 2	3'34 1'16 0'85	6'21 2'30 1'76	7 7	4123 1166 1124	,

Beplaneton. - ... indicates that no rain has fallen. If the return for any day has not here reserved, the corresponding spaces in left blank. If any of the return or wanting, the corresponding spaces in the total rainfall columns are left blank.

CALCUTTA, the 3rd June, 1890.

SUMMARY OF THE METEUROLOGICAL AND RAINFALL OBSERVATIONS .TAKEN IN BENGAL, AND OF THE METEOROLOGICAL OBSERVA-TIONS TAKEN IN ASSAM, FOR THE WEEK ENDING FRIDAY, THE 30TH OF MAY 1890.

THE general character of the weather during the present week is very similar to that of the preceding one, easterly or south-easterly winds with cloudy skies and frequent showers prevailing throughout the week. Pressure has been almost always below the normal, a lowpressure area continuing with very little change to the west of the province, and hence causing the almost uninterrupted indraught from east to west, to which is due the more than usually moist air in the Texton districts. moist air in the western districts. As stated last week, there is towards the end of May a larger proportion of moisture in the air over East and North Bengal than in the early months of the hot weather, and this has been displaced in consequence of the easterly winds, a smaller proportion of rain falling in North Bengal, while in most of the western districts the rainfall has been above the normal. In the early part of the week, the change for the better, that had set in at the end of the last week, lasted for one or two days only. Pressure continued to fall briskly for the first two days, and easterly winds recommencing, showers were frequent on Sunday and Monday in all districts except Behar. On Monday the 26th, gradients were steeper from east to west than on any other day of the week, and though pressure was changing more slowly, the rise in the eastern districts and the fall in Behar and Chutis Nagpur was causing increased difference of pressure over the province. On Tuesday rainfall was very scattered in the lower districts, but was much more general in North Bengal and Behar, and frequently heavy in the latter. After this, pressure rose in Behar and fell in the cast, so that greater uniformity prevailed, and wind velocity, which had been increasing while the gradients were steep, fell off considerably in all districts, and the scattered showers were chiefly confined to East Bengal and parts of South-West and North Bengal. Temperature in consequence of the continued cloudy weather has been lever than in usual at this reserved. in consequence of the continued cloudy weather has been lower than is usual at this season of the year, and changed rapidly but irregularly as the area of rainfall changed. The largest difference from the normal was in Behar on Tuesday when the heavy showers fell there. At the end of the week unsettled conditions appeared to be developing over the Bay: wind velocity fell off at the head of the Bay and increased at Diamond Island, but, though the rough sea reported from Burmah and Orissa showed that squally weather was beginning somewhere in the Ray, it died away without otherwise affecting the coast.

Pressure—Has been falling on five days out of the seven, but changes being

generally small, the difference from the normal has never been greater than a tenth of an inch. The difference of pressure from west to east in the middle of the week was two-tenths of an inch, but this arrangement was for one day only. On the last day, the 30th, very uniform pressure prevailed, the greatest difference between the extreme east and west not axceeding a twentieth of an inch. The mean pressure for the week is everywhere below the normal, defect being largest in Assam, and exceeding a twentieth of an inch at Silchar and Dhubri. It is least in North Behar and the west of South-West Bengal, and in the other districts averages about three hundred the of an inch.

districts averages about three-hundredths of an inch.

Temperature—Has been below the normal in all districts except Assam, where there is excess of more than 1°. Defect is largest in North Behar, amounting to 3°, and in South Behar and South-West Bengal is over 2°, but elsewhere it is under 1°; 0.9° in Orissa, 0.8° in East Bengal, 0.4° in Chutia Nagpur, and 0.3° in North Bengal. Ohanges have at times been very large, but generally irregular, depending on the rainfall at the various stations. The most rapid were in Behar on Wednesday, when there was a general fall of over 5° and a defect in some cases exceeding 10°. This was followed by a rise of about 5° on each of the two following days, and by the end of the week the distribution did not differ much from the normal.

distribution did not differ much from the normal.

Rainfall—Was general in all districts, except Behar, on Sunday and Monday, and again on Wednesday in Orisse, South-West and East Bengal. Heavy rainfell in Behar on Tuesday and in Chutia Nagpur on Friday. The rainfall distribution has, therefore, been irregular, but from the occasional heavy falls, the means for the week have as a rule been very nearly normal or above it. In North Bengal only there has been a considerable defect, as last week, the easterly winds having carried the moisture more to the westward than is usual at this season of the year. The defect in North Bengal is 1 inch, in Chutia Nagpur nearly half an inch, while the fall in North Behar is practically normal and slightly in excess in the other districts except East Bengal, where it is very nearly 1 inch. Some of the heaviest falls are—Balasore 4 inches, Satkhira, Bagirhat, and Nakipore, between 4 and 5 inches, Burrisal 4 inches, Fenny 4.6 inches, Naraingunge and Munshigunge 5.5 inches, Chumparun 4.8 inches, and Barrabhoom 3.3 inches.

The following table gives the summary of the temperature and rainfall data of each of the seven meteorological divisions of the province for the week ending Friday, the 30th of May 1890:—

			Tax	BRATI	73LD .					1	LAINE	LEE-				
		g week,	Avers	gos for	wook.	25		Of we	ek.	1	alay-d	nya.	Sinc of m	o let		1890.
Material Divisions.	Highest observed during	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mests for each day.	Average mean of week below normal mann of	Avenge.	Hornal average.	Variation.	Averge number in	Mormal average man- ber in week.	Terletion.	Alterage.	Normal average.	Average.	Horizal average,
Orașia	101'9	721	967	79'9	86'5	-00	1'46	1'88	+015	810	19	+11	9:00	373	270	3-01
South-West Bouga!	10810	8*60	9616	7615	88'8	-21	1'78	1163	+010	23	915	+8%	470	4'25	6'10	8:10
Seet Bougal	9673	71%	8915	76'0	88'8	-010	3/36	8'87	+0'07	818	81	+0'7	7'86	6193	8110	4-00
North Bengal <sup>o</sup>	9816	78'4	991	78'8	827	-0.3	1'78	2783	-1764	29	816	+0%	8:40	-8108	3 05	8100
North Bohar	100'8	70"7	96%	76'6	80%	-810	1'00	1103	-0'61	13	13	0	996	3'97	197	1'71
Bouth Schate	110'4	6919	9014	77-7	88-1	-8-9	1:01	9194	+0*17	110	178	+0%	2'94	2.27	1.30	1:43
Chatia Marper	104-3*	49-20	B6-4°	74'9"	86.3*	-0.40	0165	111	-0-40	270	19	+01	1'86	2 57	1.83	1160
Angerte	96'1	79'3	9019	7818	82'9	+1'8										

· Chyoheses not included.

MRTEOROLOGICAL OFFICE, BENGAL;

O. Latten,

The 3rd June 1890.

Offg. Meteorological Reporter to the Govt. of Bengal.

Results of the Barometrical and Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 25th to 31st May 1890.

		A. M.			Trace	MATURE.			E	l venounts	v.	Ś
Moure.	Date	Presente at 10 corrected and re- to 32" Fahr.	Dally mean.	Mazimum.	Bange.	Minimum	Dry bulb at 10	Wet buils at 10	Vapour tension at 10 a.m.	Dow point at 10 A.M.	Runsidiky at 10	Rainfall peet 26 bo
W.		Inches.	•		۵				Inches.	•	x	Inches.
21 19 000 101 101 101 101 101 101 101 101	25th 26th 27th 28th 29th 30th 31st	29 647 667 673 645 608 845 642	84 ·8 83 ·2 84 1 83 ·6 86 ·7 86 ·3 89 ·0	94:5 94:0 95:0 92:5 93:0 96:0 96:0	20-5 21-7 17-8 17-9 12-7 19-4 14-1	74-0 72-3 77-2 74-6 80-3 76-6 83-9	89·1 86·4 89·6 85·6 86·6 91·8	83-3 80-9 88-0 79-3 82-5 82-5 83-1	1 063 982 1 041 917 1 057 1 030 1 019	81·1 78·7 80·5 76·6 80·9 80·1 70·8	77 78 75 75 84 77 69	0.57
	The mee	in 10 a.s	ı. presi	nure of	the ser	ren day	8		***		Inches. 29:641	
	The extr	n tempe eme var timum te	iation	of temp	erstur	laya s	•••		***	***	85·6 23·7 96·0	

The mean 10 a.m. relative humidity of the seven days ... 76

The total fall of rain from 25th to 31st May 1890 ... 1.07

The daily mean temperatures are the cruds means of maximum and minimum temperatures.

J. H. GILLILAND,
For Meteorological Reporter to the Goet. of India.

METHOROLOGICAL OFFICE, INDIA;
The 2nd June 1890.

#### Results of the Meteorological Observations taken at the Alipore Observatory from 25th to 31st May 1890.

			8	i		TEMPE	LATURE	•		Hranos	entry,		Warp.			
Month.	Data	Maximum in our	Number of hours bright sunshine.	Mean pressure baron at 35° Fahr.	Mean	Marinum.	Renge	Minimum.	Mean wat balb.	Vapour tenafon.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Waatsaa.
1890.		0		Inches.	0	0	0	0	0	Inches	0	z			Inches.	1
May	25th	153-7	8.5	29:594	88-6	98-3	21.1	72-2	78:7	0.923	76 8	80	Variable	151	0-96	Chiefly eloudy
11	20th	164-5	5-1	-591	84-1	92.3	20-6	71-7	79-2	1980	77-8	80	88W and variable .	153	0-08	Chiefly cloudy o, d.
2.3	27 <b>L</b> b	145-5	47	-666	88-7	92-7	16-5	76-2	78-7	-919	76-7	80	SE by E and vari- able.	115	0-20	Chiefly cloud;
	28th	147-5	1.8	-564	88 9	91.5	17-9	78-6	78-8	-990	76-7	79	Variable	77	0:01	Chiefly cloudy u, d.
	29th	146-1	0.9	-667	86:4	91-6	11 9	79 7	80-1	973	78-4	89	ENE and variable	76	0-01	Cloudy, o. t, d
99	30th	152-5	8.8	-885	86-1	98-5	18-1	76-4	80-3	-974	754	81	8W and SSW	140	Wil	Chiefly, cloudy
**	Slot	145 5	24	-847	87 8	98-6	122	814	80.3	961	77:4	72	S by E, SSW and	168	21	Chiefly oloudy

The mean pressure of the seven days	35		• • • •	Inches. 29.576	
The average pressure of the corresponding pe	eriod for 24 year	rs, SG.'s O		29.592	
				Hours.	
The total number of hours of bright sunshine	B			23-2	
The maximum possible number of hours of a	unahine	4.0	949	93-4	
				0	
The mean temperature of the seven days			944	84.6	
The average temperature of the correspondin	g period for 24	years, 80.	ooffice .	86-5	
The extreme variation of temperature	e14	4 4 6	8.9.0	21.9	
The maximum temperature	+ 0 0			₽8.6	
				Miles,	
The highest velocity of the wind in one hour			***	14	
				Ibe.	
The highest pressure of wind on one square i	foot		Approxim		
•			**	0/_	4.
The mean relative humidity		. 00	***	°/	
The average relative humidity of the corresponding	onding period fo	r 24 years, f	36.10		
Office				75	
				Inches.	
The total fall of rain from 25th to 31st May	1890	•••	***	1.10	
The average fall of the corresponding period		d.'s Office		1.58	
The total fall from let January to 3 ist May	1890			7.44	
The average fall of the corresponding period	for 24 years, 8	G.'a Office	* 11.0	9.58	
mean pressure, temperature, &c., are deduced	from the traces	of the Baro	graph an		granh

and from observations made at 6h, 10h, 16h, and 22h.

The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The barometer readings are corrected approximately to those of the standard, Newman's No. 86, formerly, at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnauit's modifications of August's formula.

The directions and the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, t thunder, d drizzling rain, p passing temporary showers, a dew.

J. H. GILLILAND,

For Meteorological Reporter to the Goot, of India,

METROROLOGICAL OFFICE, GOVT. OF INDIA; Calcutta, the 2nd June 1890.

1126

#### MEMORANDUM

Weekly review of births and deaths in twenty-seven of the principal towns of Bengal for the week ending with Saturday, the 17th May 1890

#### BIRTHS

The births registered during the week ending with Saturday, the 17th May 1890, in twenty-seven principal towns of Bengal correspond to an annual rate of 15.9 per 1,000 of the aggregate population of those towns, which is 1,061,574. This rate is lower than the average rate of the corresponding week of the past five years by 2.2, and is also lower than the rate of the corresponding week of any of the past five years except 1887, vide the figures below:—

	3806.	1886.	1097.	1800.	1800.	Weekly average of five years.	2900,
Ratio of births per 1,000 of the population per annum	117	101	1878	20%	2778	18:1	36'6

The births registered in each of the last four weeks in each of the twenty-seven principal towns correspond to the following rates per 1,000 of the population:-

						VERED 1	ADING-	-					1	PERCO I	INDING-	
	Sow1	18.			98th April 1880.	3rd May 1899.	10th May 1880.	17th May 1880.	To	WS0.			South April 1800.	ard May 1696.	10th May 1980.	1715 May 1000.
Burdwan Mininapore Hushii and Serampore Utierpara Howah Bali Kishnagar Rannghat Antipore Jeasore Lampore Ba Danca	0-54 404 400 400 400	000 000 000 000 000 000 000 000 000	000 040 040 040 040 040 040 040 040	000 655 905 905 900 000 000 000 000 000 000 0	92'9 17'0 34'8 9'6 18'2 7'0 3'1 12'0 7'0 6'1 84'2 7'4	99 12'6 85'0 18'7 9'6 17'8 81'1 82'1 6'0 18'8 21'0 14'8 6'5	18-3 6-2 24-8 19-7 19-0 17-0 17-0 17-0 18-4 31-8 44-8 13-8	18:3 28:2 20:6 17:7 20:8 10:5 10:5 11:4 20:9 11:3 7:5	Narsingani Chittarong Comiliah Patha Chy Garah Mozafferpore Durbhanga Chupra Bingculpore Wonahyr Purnsak Poori	800 011 011 011 011 011 011 011	038 030 034 030 030 030 030 030 030 040	033 035 045 045 055 055 055 055 055 055 055 05	94 R 11 7 30 % 61 P 10 R 10 P 21 2 22 1 18 1 18 0 39 1 18 9	20.7 974 4874 575 1373 1474 1079 1471 1790 1772 3174 1478	10.4 89.1 7.8 14.8 10.8 10.8 10.8 10.8 10.8 10.8 10.8 10	201 211 201 211 221 231 231 231 231 231 231 231 23

It will be seen that last week the highest birth-rate was returned from Ranaghat (29.9) and the lowest from Patna City (7.1). No births were registered during the week in Jessore town. DEATHS.

The deaths registered during the week under review correspond to an annual rate of 22.5 per 1,000 of the population. The rate of the week is 5 higher than the average rate of the corresponding week of the past five years, and is also higher than the rate of the corresponding week of any of the past five years except 1885, vide the figures below:—

	3006.	1996,	1807.	3800.	3000.	Weekly average of five years.	2000.
Eatio of deaths per 1,000 of the population per	2015	99'9	9016	901	2012	22'0	2016

The deaths registered in each of the last four weeks in each of the twenty-seven towns spend to the following rates per 1,000 of the population:—

		WHERE	ENDING-	-			WHENES 1	MDING-	
Towns.	300b April 1880.	and May 1680.	1015 May 1880.	1711 May 1888.	Towns.	seh April 1896.	Sed May 1598.	16th May 1880.	17th May 1860.
Bardwas Marapare Huchii and Chipsurab Serampore Creatura Hawrah Allowrah Lamachat La	80°0 13°P 64°2 40°1 47°2 10°5 10°5 7°6  8°8 18°4 80°6 10°3 7°6 10°3 7°6	81'6 17'0 69'6 47'2 17'2 51'd 16'1 47'0 8'8 26'8 18'6 18'6	90'0 32'3 47'0 48'2 9'4 18'5 10'3 16'0 8'8 26'3 20'9 80'9 80'9	27-8 27-6 21-7-6 21-7-6 20-2 12-0 12-3 12-3 12-3 12-3 12-3 12-3 12-3 12-3	Narainganj Olatitascong Comitial Patna City Oya Arrah Monafferpore Durbhanga Chupra Hinaculpore Honghyr Purnsah Rooci	8'8 81'1 11'0 40'4 84'2 23'8 19 8 24'4 81'1 84'4 87'1 81'8 64'1	10-6 2:5 19 3 86 3 82 8 25-1 11-9 21-3 20-1 40-1 32-5 27-7 36-7	19'-6 7' 0 83'-1 82'-3 84'-3 84'-3 84'-3 11'-1 88'-9 19'0 87'-7 66'-1	18'4 81'1 85'8 85'8 17'0 85'0 10'1 13'8 19'1 20'1

It will be seen that last week the highest mortality occurred in the town of Darjiling (51.9) and the lowest in Kishnagar (9.5).

Measured by last week's mortality, the highest annual death-rates from the following registered death-causes were as follows:—

Cholera.		Pover.		Other causes.		
	Ratio per milie,		Ratio per mills,			Ratio per mille.
Durbhanga Patna Hughli and Chinsurah Mozufferpore	10·2 10·1 8·6 4·8	Darjiling Ramporo Beauleah Arrah Hughli and Chinsurah Durbhanga	51·9 26·8 21·5 21·3 20·4	Dacca Chittagong Midnapore	· 600	18·1 12·6 11·7 11·7 10·8 10·2 10·1

The total mortality from the several registered death-causes in the twenty-seven towns amounted to 2.9 from cholera, against 5.4 per 1,000 in the preceding week; 7 from small-pox, against the same ratio; 11.1 from fever, against 11.9; 1.7 from bowel-complaints, against 2.3; 3 from injury, against 2; and 5.8 from other causes, against 6.4 in the preceding week.

The mortality of last week according to Sex, Class and Age was as follows:—

According to Sex.		According	7 to C	lace.			Accord	ling	g to A	ge.	
	Ratio per mille.			1	Latro per melle.				-	1	Ratio per mille.
Males Females Ratio of male deaths to every 100 female deaths, calculated on the propartion such mortality nears to the total male and female population	22·2 22·9	Christians Hindus Mahomedans Budhists	Villa	000	7-8 28:3 20:8 51:4	16 16 20 30 40 60	Inder 1 yea and under	50 10 15 20 20 40 50 60	90	**** *** *** *** *** *** ***	176°2 34°1 10°8 14°6 10°9 10°3 16°6 16°2 22°1 60°1

Detailed information regarding the vital statistics of the twenty-seven towns dealt with in the above review will be found in the statement appended.

W. H. GREGG, Dip. Publ. Health, Camb.,

The 2nd June 1890.

Sanitary Commissioner for Bengal.

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PUBLIC WORKS DEPARTMENT,—BENGAL. IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL TEAR 1889-90.

Areas leased for irrivation up to the end of March 1890.

		Remaine			1		•					30 Days dis-	eharging.			annual loans	years least.				
	9	T'p to end of monits.	Inches.	20.58	86 60	20.29	120 22	01 OF	S 18	:	i	98.98	19.00		: 1	9.7	80.48	300.004	******		9,000-
D. in the	1 BEALING.	Paring month.	Inches.	\$0.0				D. IN	90.0		1	0.00	90.0		1	0.00	228	p87	**	1	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
-		T'p to end of month.	Inches,	08.72	66, 67	68.30	91-90	Target C	18.03	:		67.65	51.78	0.00 4.00		47.65	14.99		***************************************	1 1	1
Daine	1 /5/30-140.	Paring mentle.	Inchie.	80.0	20.00		9:28	9.00	98.0	1		96.0	0.27	800 - 100		0.38				i	1
		JATOT GRASO	Acres.	10,879	\$60,72	50,000	And and and and and and and and and and a	27,765	0.3	178,600	146,546	68,568	4,734	08,810	635,8655	21.965 81.081	63, 21 A	307,540	364,996	649,719	696,799
		JaioT	Acres.	2000	220	4,064	0° 2' 000	2.3	88	6,179	3,231	2	3	199	8,401	8 258 21,030	23, 633	84,760	144,613	91,400	121,336
		liot-weather.	Arres.	***		******	:						* * * * * * * * * * * * * * * * * * * *			8,350		12,437	9,066	12,057	0,055
CARED.	R. 00-0	Hhedoi.	Acres.	:	*****	100 000		1111			:		1:			*55	2 2	196	12	198	52
AURAS LS	Annual leases	Sammen	Acres.	27	14	8	63	1	2	126	180		9 P		4 6 6 6 6 6	1457 1457 1859 1859	200	4,132	3,536	4,265	3,716
DETAILS OF ARRAS LRAFED.		Subi.	Acres.	286	200	8,988	2012	843	56	5,900	2,917		97	094	3,880	2,315 2,930 2,453	3,053	18,775	90,576	25,116	98,602
-		Z.parif.	Aeres.	******		3	:	60 60		55	126	8		<b>a</b>	21	14,430	19,796	48,885	71,123	40,020	1.87.1
	Jin.	Piro years, kha	Acres.	10,483	27,748	53,427	2,390	17.161	2. No.	167,230	161,815	68,577	4.514	CAS, 234P	62,374					925,579	206,119
	redou	Pive years, all c	Acres.		4 4 9 0	**		•	: :				# # # # # # # # # # # # # # # # # # #		- 44 - 46 -	15,4547 589 1931 107,6445	39.7×3	5.2710	200,278	\$20,740	\$75,000
91 d	n u	rs stanizosqqA ulm mi selmi olab sume odl	A orbera.	10,040	27.230	40.744	6-100 E	B. 419	01 01 01 01 01	142,753		69,749	4,011y 285	54.77	*******	20 E	41, 453	355,729		553,200	
113.2	MITTER	Approximate an interest du tricales du tricales du tricales du tricales du tricales de tri	Arres.	10,453	27,748	40,518	1125	1919.5	18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	135,517		61,739	8.128	65,589		20,444 75,411	61,217	300,816	;	629,075	**
	*po:	ultra syrratteid	.c.	= ==	24	213714	11.18	3:0	*******		***		1				90 E		-	*********	0 0 0 0 0
nt.	o Marking	Average disci	C. ft.	8-8	10	19.676	18.99	600				114	81			1,437 898	201	-		41.51	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
*a91	ladəni	b ff#l butamite#	C. ft.	1,512	778	1,067	STEP 200	200	727.10	1		1,411	623	1		4,348 1,250 2,000	31.466				\$ 0 0 0 5
		Canal.		Teldunds, 1st reach		Kendrapara			Ditto, ditto III	Total	Total of the corresponding period of last year	Monspore	Panelikoorah Jidal reaches, Range Liff	Total	Tetal of the corresponding period of last year		Patrice and one	Total	Total of the corresponding period of last year	Grand Total	grand Total of the corresponding period of last
		District.				Cuttack	-		Bahacro				Round		•	pag	Gyn. and				
		Cracta.						Oncom					Source Wast.			8088					

CALCUTTA,
The 2nd June 1890.

G. A. G. SHAWE, Under-Secy, to the Gorl of Bengal,

# CIRCULAR AND EASTERN CANALS.

Approximate Return of Traffic for the week ending Saturday, the 31st May 1890, as compared with the corresponding week of the previous year.

				IDING BATURE at MAY 1890.	ent, tra		WEER REDIEG SATURDAY, THE let June 1859.				
Nature	OF CARGO.		Number of boots,	Weight of	Tollage,	Number of boats.	Weight of cargo.	Tollage.			
			No.	Mds.	Rs.	No.	Mds.	Re.			
Rice and paddy Jute Firewood Other articles	000 000 000	80 ·	147 7 96 686	34,675 2,650 67,575 1,58,333	437 46 983 2,157	213 9 108 687	73,096 6,020 69,000 2,02,860	1.817 84 911 2,977			
	Total	***	884	2,63,133	3,623	1,017	8,40,665	6,288			

#### EAST, INDIAN BAILWAY.

Statement of Goods Traffic in Staples carried during the four weeks anded 20th April 1890, as compared with the same period of 1889.

	Se a De Ma	19	90.	18	80.	Incr	odita,	Door	W600-
	STAPARE.	Weight.	Praight.	Weight.	Frought.	Weight,	Freight.	Weight,	Prought
		Mds.	Ra.	Mdn.	Kn.	Mds.	En.	Mds.	Re
	(Horses, ponies, and mules	No. 35	35.0	No. 80	9,075	No	813	No. 43	1.0
RIMALS, LIVING	Sheep and goals	104 1, 2,9us	916	3,150	8,648	14 400	019	378	
	COther auda	00	02014	60	800 pice a mey	11 011111	236	*2 *61.00*	214114
anes and ratans	400 Acc 000 000 000 000	539	374	280	138	259	200	40'	00000
mutchour thidin	n-rubber)	*****	1210	000141	910 141	\$6511	40.1118	484111	******
Butter Brita mercel	1000 WALTS 100 111 100 411	9,41,435	2,00,766	7.58,475	2,21,646	1,83,930	B:	** ***	8
Ditto, dos	78 gp: -er -en -gp:	\$6,750 cmR	3,24,949	25,10,668	3,33,240	I TACOMENIA	6411	20,000	8,61
Aton, raw	mps 000 fel 817 000	1,12,621	1,14,100	76,805	53,381	86,516	61,788	20140	****
	Twist and yarn (Huropean)	7, 168A 23, 160	8,116	8,980 11,460	7,128	8,071	1880	961	1,3
PACTURED.	Piece-goods (European)	1,86,500	2,00,411	1,900,000	2,36,032	******		15,091	50.5
	( lister (Indian)	15,673	6,1 i	17,114	9,651	6	**	1,661	1,5
	Other seris, not intextenting	1,955	1,901	1,899	1,886	63	35	411170	
TOO AND ME-	Intexicating drugs (other than	THIS	4853	1,230	994	*4****		443	3
iciam.	opinio i.e., arsenic, bunzac,								
	Indiro	638	704	547	664	91	40	******	
Mare	Madder or manjil	4	6	12	8	000 44		8	849461
PING MATE-	Satisfier	3,067 10 gus	2,336 (	8,655 11,195	2,424 0,220	.041	** ***	829	
	Other kinds	16,612	S N5.6	7,Meiei	3,105	5,746	2,000	B/540.	3
thenware and I	orredan or or	877	1 effect	703	3,177	22A		184	*** **
-	Do., manufactured (gunny-	7,179	2,5%7 38,66%	1,883	859 69,345	5,294	1,529	68,803	70.1
HOUR PRO-	base and clothe).							607,000	30,0
CCTS.	Other fibres, raw	21,155	3,694	12,661	3,444	8,844	2,110	40 000	441000
3	Occounties	5,151 3,160	2,106	5,143 4,1(H)	23,493,22	3,000	859	1,029	******
TITE & NUTS	All other kinds	St mor	20,755	33,750	£1, A7	111100	*****	290	1,2
ì	Wheat	6,15,552 3,31,597	1,14,745	5,42,442	49,204	1,25,570	34,110	1,33,890	11,
	Gram and pulses	8,21,077	163,024	8,10,507	1,15,641	1,54,070	99,180	08,930	100.1
ANN & PULARS	Do., unhusked	14,613	1,0690	24,093	Z janisa	610101	101150	21, 6,40	20,1
Į	Other rain and spring crops	20,193	12. 48 34.11n	99,7(a)	39,406	8,971	1 + 0 9 44	82,040	7.8
ernment stores	999 *** 998 *** 000	4,966	2,145	8,305	1,965	1,366	263	191111	D.5
ma anu reeme	Hides of cattle	23,579	17,628	87,544	24,137	*****		9,665	6,8
DES & BEING }	Skins of sheep, goats, and	1,671	3,395	9,435	6,046	36	1.1501	* > 4 = 9 =	6
	small animals.	1,400	806	996	682	483	274	684 (44	
109	Lac, dye	30 000	8	0	12	d offer	100	3	0901++
	Do., shell	12,086	9,23h	9,063	7,0ml	2,953	1,1996		*****
r	Do., suck and other kinds Leather, unmanufactured	1,489	2,5.6	1,279	AT 18-25-5	190	200	0077	100011
TAMES (	Ditto, manufactured	1,662	2,350	1,725	3.00	B melik	0 9 0 7 1-1	13	3
	M 403 840 500 400 401	17,007	15,446	16,5W2	15,489	1,028	10	******	3
erals es		1,72,403	22,265	1,83,990	27,841	144 .	1 + 0 6 1 1	11,417	8,8
TALS AND	Brass and copper	24,407	73,250	21,375	15,673	2,930	3,160	***	*****
ANUNACTURES		5,090	4,5%	73,072	8,875	84,097	2012/07/1	1,306	
to	1	41,700	21,151	41,002	25t,65th	788	2,033	1,000	1,5
12.200		9,235	18,515	20,864	9,837	2.0LPG 6	7,466		
nis and colours.	Classes 421 141 600 200	20,435	16,600	26,595	12,185	4,930	3,478	5-1000	
dROISIVE	Ghee	8,801	6,542	h, J07	7.162	104	175.00	F64	******
lway materials,	Construction Account	2,91,044	1,16,074	2,53 077	2,7#3   78,813	3.7 (4)27	1000 1000 1	52,886	1
itto dillo.		4,47,988	\$46 2582	6,86,9750	ms, is 4.5	17,997	7,984	37,991	***
	Saltpetre	80,594	37 479	83.20k)	201,7164	17,286	10,250	******	******
SARREN or 5	Other salino substances	9,913	1,75,244	6,72,726	1,60,156	7,440	16,690	8,617	(
	Hustard and rape	2,77,164	61 744	3,61,654	70,634	81.14	10/000	04,650	8,8
AMEDS. )	Til or ginjelly	10/898	@ #Jast	6,603	1,240	4,290	1,480		61,2
208	Other oleman	7,56,773 6,890	1,000	1,74,788 10,000	41,601 2,672	******	******	17,960	6,0
OTHER S	Indigo seed	404111				****		3,710	3,:
C same (	Other kinds	49,323	25,511	40,403	19,880	8,920	6,130	*****	******
- 6	Bilk, faw	1,766	1.167	1,604	947	352	220	1777 kg/h	*****
· ~{	Do., manufactured (Ensuponm) Do., disto (Indian)	361	207	384	260	*****	665-11	3	*****
00	20 200 000 000 000 000	19,493	19,000	40 to 27 F F St	80,110	67,497	915	2,878	
to and marble.	* 407 484 601 664 701	1,90,430   3,39,532	60,521	3,15,420	88,583	87,497 20,259	8,562	*****	111894
AB }	Bugar, refined Do., unrefined	1,02,590	35,121	2,85,951	35,519	131.007	9,810	1,81,522	8,1
Š	Tea, Indian	978	426	que	564		201111	176	u,
	Do., Foreign	90,394	46,887	9/P (M81	80,414		448494	10000	******
MORE		82, 11	9,3557	38,444	90,414	12,523	1,225	9,847	4,0
000{	Timber Pirewood	65,873	6,661	43,676	8,678	21,797	Mish	******	100000
Ì	Wool, raw	1,590	A,19G	1,986	1,127	*****	401	398	****
	Do., manufactured (Euro-	147-11		44000	*#****	** ***	******	000 11	400 000
OE	pean). Wool, manufactured (Indian)	897	746	693	800	76	*****	200 142	
- L	Shawla	2,86,047	1,07,488	2,60,343	1,73,004	31,064	19,19p	*****	1/1000
other articles of		84,371	15,07,000	14,491	4,023	31,095	11,464	(+1.11	*****
Lipot		84,207	3 NS7	87,816	7,100	*****	*****	13,600	3,3
		91,00,001	25,26,783	V2,10,959	24,30,597	6,79,485		-	
	Total		ma, and , f 850	V-0-, 40 , 80 3	9-4-11 PAR (	0,10,000	2,00,630	7,20,866	1,00,1

General remarks on the fluctuation of principal staples carried over the East Indian Railway during four weeks ended 26th April 1890.

#### IFCHRASHS.

Cotton.—This satisfactory increase is a continuation of that obtained through the season, despatches having been made chiefly from the cotton-despatching stations above Cawapore and from stations on the Bombay Barods and Central India Railway was Agra to Calcutta.

Gram and Pulses. This was in despatches of gram, khassarie and collis from stations on the "R," "B," and "C" districts

Gram and Pulses.—This was in despatches of gram, khassarie and colli from stations on the "R," "B," and "C" districts to Hownsh and Burdesan for stocks and local consumption.

Iron.—The improvement under this head was due chiefly to despatches of east-iron pipes from Hownsh for the water-works at Albahubad, Azra, and Khatmandu in Nepal.

Opium.—This increase was in crude opium sent for manufacture to the Government factories at Patna and Ghazipur from different stations on the "R," "B," and "C" districts.

Railway Material, Foreign.—Chiefly consisted of permanent-way material despatched from Hownsh for the Bengal-Nagpur and the Delhi-Umballa-Kalka Railways.

Salt.—There was a decrease in the weight carried attended with an increase in carnings; but there was an increase both in weight and carnings in the despatches of Liverpool salt from Hownsh to stations on the Tirhoot State and the Bengal and North-Western Railways. This increase in weight was counterbalanced by decreases in the re-booking of Kheura salt from Patna, and in the receipts of Sambhar salt cid Agra and cid Hathras at stations in the North-West Previnces.

Saltpetre.—The increase in this staple was chiefly in despatches from the Tirhoot State Railway vid Mokameh Ghât, and from cid Moghalasrai, Ghaziabad and Delhi to Hownsh for expert to Europe and China.

Seeds.—There was a falling off in the weight carried attended with an increase in carnings, the former was due to heavy despatches but year of short lead traffic in mostard and rape, poppy and linesed to Bonabay from stations on the Ondh and Robikhand Railway passing Aligarh and Hathras junctions. The increase carnings were obtained from long distance despatches of mustard and rape seeds from stations on the "B" and "C" districts to Hownsh for local consumption, and for expest to Bombay.

Sayar (replaced and warefined).—There was a decrease in the weight attended with an increase in carnings, the falling off in

Sugar (refined and unrefined).—There was a decrease in the weight attended with an increase in carnings, the falling off in weight was in short lead despatches from the North-Western Railway cid Ghaziabad to stations on the Bombay Bersda and Central India Railway passing Delhi; also from the Oudh and Rohilkhand Railway esid Aligarh and rid Cassapore to Agen.

Bosen.—The increase in this article was chiefly in despatches from oid Moghal Serai end Assusol. Mokameh Ghât, Agen and Delhi to Bally and Chitpore.

#### DECREASES.

Piece-goods, European.—The decrease was chiefly in despatches from Howrah to Cawopore and Itelhi.

Gunny-bags.—A limited demand for bagging wheat and seeds accounts for this falling off.

Wheat.—The falling off was chiefly in despatches from stations on the "D" district to Howrah, owing to absence of demand for export due to high rates of exchange.

Bree (husked and unhanked).—This is a continuation of the decrease reported in previous months.

Other raise and spring crops.—The decrease was chiefly in eats from Bhagalpur to Howrah for shipment, and in jowar grain from the North-Western to the Bombay Barods and Central India flailway old Ghaziabad and Delhi.

Hides.—The decrease in despatches from all the principal despatching stations due to short supplies.

Tobacco.—Chiefly in the receipts of this commodity from the Eastern Bengal State and Annua-Behar State Railways cid Naihati and Shahebgunge respectively.

ALLEE MEARS, Dy. Traffic Manager.

THANKID MANAGER'S OFFICE, CALGUTTA, the 30th May 1890.

# Weekly Return of Traffic Receipts on Indian Railways.

# EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 1,625; miles open.

	COACHIE	G TRAVES	Ç.		MERCHANDISE AND MINERAL TRAPPIC.				YOU COLUMN			TRAFFIC TRAIS-MILES BUN			
	Number of passengers.	Receip	otn.	Weight carried.	1	Receipt	B.	(metiana	ted).	Point enruinge	Conchang.	Merchan- dise, -	Total.		
•		Ra.	A. F.	Mon.	0.	80. A	. P	Rs.	A. P	Ro. A. P.	1				
Total traffic for the week	949,258	2,44,481	8 0 3 11	26,00,044 9	U	8,83,982 384	2	21,634 14	3 n 1 10	8,51,908 7 ± 558 7 9	61,864	98,899}	163,500[		
Aget	5,200,779	57,33,117	19 0	5,27,00,281 2	10	1,23,69,005	8	4,62,811	14 D	1,84,94,937 14 d	1,810,734	1,956,2004	3,247,484		
Total for 21 weeks	8,480,037	257,77.500	2 0	8,51.72,220	0 1	1,29,44 991	1 3	4,24,346	1 9	1,93,40,908 8 0	1,575,8954	2,095,599/2	3,410,9091		
Companisor.					1										
Potal for corresponding week of previous year Per mile of railway correspond- ting week of previous year	961,7711	1	8 2	80,95,483 [		6,86,8 <b>2</b> 9		20,347	3 3 6 5	9.47,602 (8 1) 621 2 10	60,448	112,561	178,283		
Potal to corresponding date of	8,622,990	67,04,383	7 2	5,96,59,515 1	9	1.81,84,998	6 4	3,61,898	9 6	1.97,01,176 5 0	1,378,900	2,683,458	3,462,344		

Approximate Statement of gross receipts of the East Indian Railway, propared in accordance with Public Works
Department Circular No. XXI, Railway, dated 28rd July 1883.

RECRETE FOR WERE ENDING RECRETES FOR WHEN ENDING ESTH MAY 1869.						PRIL 1880 TO 25 MAY 1880.			PRIL 1890 TO 2 MAY 1890.	Total	Total		
Mean Dilenge Worked.	Receipts.	Per mile worked.	Mean mileure worked.	Receipts.	Par mula worked.	Mean mileuge worked.	Total receipts.		Mean mileage worked.	Total receipts.	rer mile worked per work.	Indianae in	dec ormit
	Re.	Bls.		Ra.	Ba,		Re.	Ra.		Ro.	Ra.	Ra.	Ra.
1,6054	9,47,608	621	1,825}	8,51,968	888	1,825	78,75,293	621	1,5284	71,78,318	388	100 95-	3,96,978

# PATNA GYA STATE BAILWAY.

Approximate Return of Traffic for week ended 34th May 1890, on 571 miles open.

	COLUMIS	TRAPPI	c.		MERCHAUDISE AND MINERAL TRAFFIC.				Total carning.	TRAFFIC TRAIS-MILES RUR.			
	Number of passonicers.	Recei	pbs.	Weight carried	Boosig	Becaipte.		(ostimates).		Onaching.	Meroban- dise.	Total.	
		Re.	A. P.	Mns. (	Ba.	A. P.	No. 4. 1	P.	Ro. A. P.				
Total traffic for the week	13,338	5,918		1 220,18 Eva		0 0	89 7 1 0	7	8,954 14 0 154 8 10	1,518	801	2,304	
Por previous 30 weeks of half-	377.847	1,42,589	9 0	9,94,213	84,678	18 0	821 4	0	9,06,086 13 0	88,082)	24,860	47,Apg	
Total for 21 weeks	200,655	1,49,808	• 0	10,45,835 1	67,665	18 0	11 088	0	2,17,041 10 0	34,545	18,741	50, <b>2M</b> 0	
Potal for corresponding week of previous year	9,005)	4,818	18 8	89,108 9	8,726	1 0	41 0	0	7,965 13 2	2,561	1,001	3,000	
ing week of previous year	1001	78	19 1	1,638	65	1 8	0 11	0	139 9 10	A00 was	00000	100 000	
foral to corresponding date of provious year	294,189	1,55,700	10 0	9,56,904 2	84,722	4 9	1,524 \$		8,12,015 6 0	37,186	18,700	82,636	

Approximate Statement of gross receipts of the Patna-Gya State Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, duted 23rd July 1883.

	TO POR WERE			TO POR WARE			L RECEIPTS FRO PAIL 1889 TO 251 MAY 1889.			ALL 1890 TO 24: MAY 1890,		Total	Total
Mean quiente worked.	Locatpin.	Per mile worked.	tean nil-agr corked	Recupto.	Per mile worked.	Mean militage worked	Total receipts.	Por mile worked per week.	Mean mileage worked.	Total receipts.	Fer mile worked per week.	increase in 1800.	decrease in
87 <sup>1</sup>	Rs. 7,506	Ra. 140	67)	Re. 6,765	Ra. 187	876	Ro. 74,481	Ra. 168	578	Ro. 30,411	Ba. 106	Ra. 18,000	Ba.

#### TARKESSUR BRANCH RAILWAY.

Approximate Return of Traffic for week ended 24th May 1890, on 221 miles open.

	COACHIBO	TRAFFI	C.	MERCHAPI	EAF!		REAL	Other on	ming	To	inl	TRAPPIC	TRAID-MIL	DE RUE.
	Number of passengers.	Receip	ota.	Weatht carried.		Receip	ta,	(estima	(ad),	00.7211	ugu.	Concluing.	Merchan- dise.	Total
		Ro	. A. P.	Mos.	8.	Ra.	A. P.	Re	4. 7.	R	. A. P.	1		
Total traffic for the week Or per mile of railway For previous 20 weeks of half-	18,640	4,816	7 3	9,376	10	37e 16	3 0 10 3	9	6 6	8,196	5 0	900	70	4
year	446,212	1,19,851	1 0	3,06,717	80	9,783	18 0	192	10 0	1,29,777	7 7 0	17,768	9,148	19,98
Total for \$1 weeks	4#5,961	1,34,067	8 0	3,14,093	0	10,143	18 0	301	10 0	1,34,975	12 0	18,668	8,218	90,87
Comparison.														
Potal for corresponding week of previous year Per mile of railway correspond-	19,945}		8 13	7,880		200	7 0			5,300	4 8	911	87	90
ing week of provious year	0 - 0 + 0 3	240	8 1	294 4+4	- 1	2.0	8 0	0	6 3	24	1 1 8	PTP101	800.00-	1.000
previous year	605,8486	1,27,506	0 6	2,00,300	10	7,918	5 0	165	7 0	1,84,980	13 0	19,341	1,278	30,6

Approximate Statement of gross receipts of the Tarkessur Branch Railway, prepared in accordance with Public Works
Department Circular No. XXI, Railway, dated 23rd July 1888.

	F FOR WEEK			TO FOR WEEK			PRIL 1880 TO 20 MAY 1889.			PRIL IMM TO 24 MAY 1890.		Total	Total
Mean mil-agn porked.	Receipte.	Per mile worked.	Mean milense worked.	Receipts.		Mean militate worked.	Total receipts,		Menn mileage worked.	Total receipts.	l'er mile worked per week.	incresso in	decrease is
	lia.	Ro.		Ca.	Ba.		Ra.	Re.		Be.	Ba.	Re.	Ro
201	5,386	346	200)	8,106	200	200	80,017	809	204	63,700	202	00016	118

#### RASTERN BENGAL STATE RAILWAY.

(INCLUDING N. B., DACCA, K. AND D., AND ASSAM-BRHAR SECTIONS.)

Approximate Return of Traffic for week ended 17th May 1890, on 747 miles open.

	COACHIE	· TRATE	c.	MERCHANI		PDIC.	34/	J.L	Other ea:		Tota	ì		TRAFFIO	TRAID-MIL	BU AUN.
	Number of passengers.	Conchi		Weight carried.		Receig	en,		steam-b		oarmin	go.		Cosching.	Merchan- due.	Tota.
		Re.	A. P.	Mps.	9.	Be.	۵.	2.	Re.	A. P.	Ma.	A. I	P.			
Tetal traffic for the week	187,740 184		0 0	5,27,170 704	0		0 0		18,460	0 0	1,70,340 214 *38,03,965	0	0	425,375	90,314	\$1,00
Total for 20 weeks	8,186,050	15,40,436			_	19,64,217	_	ngrun.	8,67,913 8,61,372				_	448,159	885,568 685,688	1,010,74
Companion.  Teni for corresponding week of previous year.  Por mile of railway corresponding period of previous year.  Catal to corresponding date of previous year.	181,883 196 8,997,883	85,550 97 14,74,291	0 0	1	0	\$2,028 187 16,81,088	0	0	20,786 13 3,78,638		226	0	0	\$3,666 420,916	\$4,636	914,87

<sup>\*</sup> Audited up to week ending 39th March 1890. † Excluding steamer earnings.

# FINANCIAL YEAR.

#### Approximate Statement of gross receipts of the Eastern Bengal State Railway

Bacatt	te pon whim hth May 1889	MEDIEG	Racut	PTH FOR WEEK THE MAY 1890.	REDIEG	TOTA	L RECRIPTO FRO PRIL 1889 TO 16 MAY 1889.	on in	TOTAL	RECEIPTS PROBLEM 1890 TO 17T	m ler	Total	Total
Mean mileath worked.	Receipte.	Pur mile worked.	Monn milestr worked.	Receipta,	Per mile worked.	Mean mileage worked.	fotal receipts.	mile worked per week,	Mean suleage worked.	fotal recsipta.	mile worked per week,	1600.	1690.
	Re.	Ra.		Re.	Ra.	1	Ra.	Re.	1	Ro.	Re.	Ro.	Es.
67%	1,71,621	955	747	1,70,300	225	673	11,93,081	258	747	11,29,338	235	1,06,657	<b>6</b> 00 ***

### BENGAL CENTRAL RAILWAY.

# Approximate Return of Traffic for week ended 17th May 1890, on 125 miles open.

	COACEIR	O TRAFFI	c.		MERCHAN		AND MII	I IL JI	AL	011						TRAFFIC	Train-min	BO BUN.
	Number of passetuters.	Conchi			Weight carried.		Recor	10,		Other ea (estima			darus darus			Conching.	Merchan-	Total
		Ra.	۵.	P.	Mps.	6.	Re.	A.	э.	Ba,	٨.	P.	Ra.	Α.	P.			1
Total traffic for the week Or per mile of railway For provious 19 weeks of built-	25,909 202	8,100 65	0		41,830 835		3,270	0	0	100	0	0	11,470 92	0		3,627	2,018	B,671
7007 100 000 1001 Ac-	*841,638	1,62,483	0	0	*10,10,972	n	89,033	0	0	1,259	0	0	92,43,778	0	0	67,031	3R,446	*106,497
Total for 30 weaks	660,233	1,90,583	0	0	10,52,792	0	61,503	0	0	1,389	0	0	2,53,245	0	0	70,618	40,511	111,160
COMPARISON.																		
Total for corresponding week of provious year Per mile of railway correspond-	27,343	5,849	0	0	58,956	0	3,001	0	0	46	0	0	12,406	0	0	8,616	12,008	5,673
ing period of provious year	819	71	8	0	448	U	19	0	0	001000			100	0	0	48666	100 504	00100
Total to corresponding date of previous year	176,408	1,97,777	0	0	11,35,967	0	65,834	0	0	4,785	0	0	2,68,096	0	0	73,378	38,702	112.075

<sup>\*</sup> Audred up to wesk ending 29th March 1890.

#### FINANCIAL YEAR.

#### Approximate Statement of gross reveipts of the Bengal Central Railway.

Racpires 16	THE WAY 146	TFDIFO	Racuty 17	THE WAY 1890	anding.		L RECEIPTS PRO L 1889 TO 18TH 1889.			L MECRIPTE PRO 12 1890 TO 17TH 1890.		Total	Total
Mean mileage worked.	Receipts.	Per mile worked.	Mean mileage worked.	Receipts.	Per mile	Mean mileage worked	Total receipts.	Per mile worked per wook,	Mean mileage worked.	Total receipts.	For mile worked per week.	1590,	decrease a lave.
185	Na. 12,496	9a.	126	Rs. 11,670	Re. 91	136	Ro. 90,368	Ra. 168	196	Ro. 8:,794	Ro. 96	<b>Rs.</b>	Ro. 7,569

# DACCA STATE RAILWAY.

Approximate Return of Praffic for week ended 17th May 1890, on 86 miles open.

-	Coacuta	O TRAPPI	C.		MERCHAND		ento. Menni	LAL	Other on	nu	uttas	Tota	1		TRAPPIO	TRAIN-MILE	es ave,
	Number of passengers,	Conch			Weight barned.		Receipts		(entima)			oarnin	gu.		Conclitug.	Merchan-	Total.
		Ba.	۸.	2.	Mps.	a.	Ru, A	. P.	Ra.	Δ.	P.	Ra.	Δ,	P.			
Total traffic for the week Or per mile of railway For provious 19 weeks of half-	15,000 155	4,And 53	0	0	13,850 184		1,770 0 21 0	0 0	80 1	0	0	6,4/\dagger 75			2,616	000	8,10
year	*333,001	1,06,802	0	0	*4,79,642	0	46,938 0	0 ,0	8,961	.0	0	*1.54,701	0	0	43,119	18,288	*00,37
Total for 20 weeks Companison.	\$64,001	1,11,108	0	0	4,95,493	0	40,705 0	0	3,311	0	0	1,01,151	6	0	67,633	15,048	68,4
Total for corresponding period of previous year Per man of railway corresponding	19,323	3,751	0	D	27,067	0,	2,037 6		DG	Ú	0	8,384		1	1,479	6:46	8,31
period of previous year.	3.50	48	0	0	318	0	23 0	0	1	0	0	r r r	0	0	*****	100.100	411001
previous 3 cal	310,507	94,739	0	0	3,59,001	0	20,515 0	0	3,288	0	0	1,18,495	0	0	49,020	34,715	61,91

<sup>\*</sup> Audited up to week ending 29th March 1890.

#### FINANCIAL YEAR.

Approximate Statement of gross receipts of the Dacca State Railway.

Raceipi	rs for werk	ENDING P.		TS FOR WEEK TH MAT 1890.			L 1860 TO STA 1869.			L RECEIPTO PRO L 1800 TO 17211 1880,		Total	Total
Mean minuse worked.	Rezeipta.	Per mile worked	Mean uileaze worked.	Receipts.		Mean milenge surked.	Total receipts.	worked	Mean milespe- worked,		Per inthe work and per work.	increase in 1890.	discussion to
	Re.	Ba.		Re.	Bo.		Re	ga.		Re.	Ra.	Ro.	Ro.
86	5,864	68	86	6,450	TS	ĐG	as, dos	60	86	47,550	79	11,718	F>9800

#### NALHATI STATE RAILWAY.

Approximate Return of Traffic for the week ending 17th May 1890, on 277 miles open.

	COACRIB	G TRAFF	EC.	MERCHAN		PPIC.	FX	RAI				- Contract			TRAPPIC	TRAID-MILE	m aug.
	Number of passengers.	Conch		Weight		Roses	pts		(matemat			Tota estua			Conching.	Merchan-	Total.
		Rs.	4. /	Mos	0.	Ra.	٨	P.	Ra.	4. 1	P.	Ra	Δ.	p			
Point tends for the week Or per mise of rankway For arranging to weeks of half-	2,946	1,637 88	0 0	12,707 476		750 26	0	0	17	0	00	1,784		0	540	254	763
7007	61,995	22,291	0 1	2,35,461	0	14,500	0	0	1,797	0	0	25,541	0	0	P,508	9,350	29,060
Total for 19 weeks	64,979	:8.33%	0 (	3, 56, 254	0	14,996	0	0	1,494	0	0	40,130	0	0	10,017	0,410	10,827
COMPARISON.											1				1		
foral for corresponding week of previous year	2,517	2,068	0 6	7,897	0	408	0		100	0		1,601	0	0	860	954	203
ng week of previous year	103	20	0 0	871	0	17	0	0	4	0	0	62	6	0	+0-0.044	104.00*	4.001
previous year	65,610	24,436	6 6	2,10,936	0	13,296	0	0	1,608	0	0	30700-6	0	0	10,084	9,029	24,052

### PINANCIAL YEAR.

Approximate Statement of gross receipts of the Nalhati State Railway.

Reduir 11	TO FOR WELL TH MAT 1865	erdino.		FER POR WEST		TOTAL	PART 1889 TO 18 MAT 1889.	THE THE		PRIL 1970 TO 17 May 1800,		, month	- Control
Wenn murade enried	Receipts.	Per tnile worked.	Menn milease workett.	Ressipts.	Par mile worked,	Mean milente worked.	Total receipts.		Mean milenste wornest	Total receipts.	Per mile worked per week,	Potai tnotementa 1590-01.	decreased in 1850-91.
•	Bo.	So.		Ro.	Ro.		ão.	ile.		Ra,	ne.	Ba,	Ru-
271	1,691	83	177)	1,784	66	271	11,504	60	\$7 t	11,417	60	144.000	89/

# TIRHOOT STATE RAILWAY.

Approximate Beturn of Traffic for the week ending PAth May 1840, on 273 meter open.

	COACHIN		Muschapital and Minfeal.									TRAFFIC TRAIN-MILES RUE.					
- 4	Number of passengers.	Conching Procupts.		Weight carried.		Becurpte.		Other curnings (continue tot).		Total earnings.		Coaching.	Merchan- dise.	Total.			
		Ra.	A. P.	M no.	6.	Ro.	Δ.	P.	Ra.	Δ.	Р.	Re.	۸.	7.			
Total traffic for the week Or per mile of railway	40,004 147	15,010 65	0 0	2,29,105 839		25,829 95	0		2,946	0		43,785 153		00	4,923	8,846	18,271
For provious 18 works of half-	924,358	3,61,210	0 0	50,24,300	0	5,78,390	0	0	62,101	0	0	10,21,707	0	0	101,381	188,089	289,430
Total for 30 weeks	966,448	3,96,226	0 0	62,53,465	0	6,04,219	0	0	68,967	0	0	10,66,492	0	0	106,254	196,437	302,691
COMPARISON.																	
Total for corresponding week of previous year Premise of railway correspond-	40,725	15,000	0 0	2,38,067	0	19,412	0	0	4,787	0	0	39,258	0	0	4,000	4,000	21,540
total to corresponding date of	149	55	0 0	- ' B61	0	'71	0	0	3	0	0	196	0	00	*****	466 00a	201700
bestone here	. 900,807	5,89,453	0 0	81,08,656	0	3,06,116	0	0	79,756	0	9	7,25,325	0	0	110,046	210,000	226,186

<sup>\*</sup> Steam-boat earnings excluded to calculating "Total earnings per mile of Railway."

## FINANCIAL YEAR.

Approximate Statement of gross receipts of the Tirkoot State Railway.

Total anchipm from 1st April 1890 to Stri Mat 1890,

worked.	Menon Cum	worked.	worked.	ireconfide.	worked.	worked.	1 odn tapishis	per wonk,	worked.	Tout resulpte.	per week.		
	Ba	Be.		Ro.	Re.		Ra.	Re.		Re.	Bo.		Rs.
273	80,598	246	973	48,685	160	27.5	3,12,946	143	273	3,66,273	168	8	3,397
		DA	RJEELI	NG-HIMA	LAYA	N RA	LLWAY CO	MPAI	YY, LI	MITED.		B	Zo.
				nings for w		ing 3rd		•••	***	004		13,5	
			Increase	,	***		***		000	***	-	1,0	87
				for week e					100	. 8 6	Rs 266 24	1	P. 7
			Increase	-	000		101		60-	000	21	4 .	11
	•	Receipts Currespo	from late	January to riod of 188	8rd M 9	ay 1896		***	***	***		,65,10 ,66,1	
			Decrease	ð	***		4.0.0		.04	000	-	1,00	07
			DARJE	ELING-HI	IMALA	YAN	RAILWAY	COM	PANY,	LIMITED		R	ls.
9		Approxiz Correspo	nate earr	nings for we riod of 1881	ek endi	ng 10tł	May 1890	•	***	* * * *		12,78	
			Increase	-14	•••		•••	•	***	• • •		77	76
		Receipts Correspo	per mile	for week er riod of 1886	nding 19		y 1890			409	Rs. 250 265		
			Decrease		6 0 0			•	0.00		15	3	7
				January to riod of 1889			90		400	***		77,86	
		A									_	1 =0	.0

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# The Calcutta Gazette.

WEDNESDAY, JUNE 11, 1890.

# OFFICIAL PAPERS.

Non-Subscribers to the GAZUTTE may receive the SUPPLEMENT separately on payment of Six Rupess per annum if delivered in Calcutta, or Twelve Rupess of cont by Post.

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ORDERS ON THE MEMORIAL AGAINST THE ASSESSMENT PROVISIONS OF THE CALCUTTA MUNICIPAL CONSOLIDATION ACT OF 1888.

## MUNICIPAL DEPARTMENT (MUNICIPAL).

Durjeeling, the 7th June 1890.

## RESOLUTION.

READ-

A memorial presented to the Lieutenant-Governor on the 9th May 1890 by Maharajah Sir Narendra Krishna Deb, K.C.I.E., on behalf of the Calcutta Rate-payers' Committee, praying for certain amendments in the Calcutta Municipal Consolidation Act, II (B.C.) of 1888.

## Read also-

A note prepared by the Hon'ble Sir Henry Harrison, Kt., with its appendices, dated 26th May 1890, commenting on the memorial.

This memorial of the rate-payers of Calcutta, praying for the amendment of the assessment clauses of the Calcutta Municipal Consolidation Act of 1888, has been signed by a very large number of residential house-owners, and there are included among the signatories the names of some of the most distinguished and influential citizens of Calcutta.

2. The memorial raises questions of great importance, affecting the justice and equity of municipal taxation, which have lately been under the special consideration of the Degislature, and impugns some of the fundamental provisions of a law which was passed after full deliberation, and has only been for a little more than a year in force. The arguments contained in it were discussed in the Bengal Legislative Council, and were again repeated in a memorial addressed to His Excellency the Governor-General in Council, which is referred to, and largely quoted from, in the present memorial. Those arguments were rejected, and it was deliberately decided that the Act should be left to its operation. Notwithstanding these facts the Lieutenant-Governor, having regard to the weight and influence of the signatories, and to the strong feeling which, within His Honour's cognizance, the assessment sections of the new Act have excited in Calcutta, has deemed it advisable to take the present opportunity to enquire again thoroughly into all the circumstances which led to the enactment of the provisions of the law to which the memorialists object, and to place on record in a complete form the reasons which, in his opinion, rendered legislation on the subject imperatively just and necessary. With this object a copy of the memorial was transmitted to the Hon'ble Sir Henry Harrison, the Member of the Bengal Legislative Council who was in charge of the measure, for such observations as he might wish to make. The reply received from him, which is herewith published with the memorial, is an able, elaborate, and conclusive vindication of the provisions of the existing law.

3. Under the old law [section 104 of Act IV (B.C.) of 1876] it was

enacted as follows :-

"The estimated gross annual rent at which any house or land liable to rate under this Act might reasonably be expected to let from year to year shall, for the purposes of any rate to be imposed under this Act, be held and be deemed to be the annual value of such house or land."

The section of the present law [122 of Act II (B.C.) of 1888] to which the memorialists take exception is as follows:-

"For the purpose of assessment under this Act, the annual value of land and the "For the purpose of assessment under this Act, the annual value of land and the annual value of any house built for letting purposes, or ordinarily let, shall be the gross annual rent at which such land or house might reasonably be expected to let from year to year, less in the case of a house, an allowance of 10 per cent, for the cost of repairs, and for all other expenses necessary to maintain the house in a state to command such gross rent.

"The annual value of any house not built for letting purposes, and not ordinarily let shall be 5 per cent, on the sum obtained by adding the estimated present cost of building the house, less a reasonable amount to be deducted on account of depreciation, if any, to the estimated value of the land valued with the house as part of the same premises.

"When a house is occupied by the owner under such exceptional circumstances as renders a valuation of 5 per cent, of the cost of building, less depreciation, excessive, a lower percentage may be taken."

percentage may be taken.

The prayer of the memorialists is directed against that portion of the new section which relates to the assessment value of houses built for residential purposes. The exact words of the memorial are-

"The amount spent in the building or enlargement of a family dwelling-house affords therefore, in the vast majority of cases, no criterion as to the owner's means or position in life, and should not, it is submitted, be adopted as the basis of taxation. Such houses should be rated at the annual letting value, to be determined with regard to the purposes for which they were built and for which they are capable of being used."

And again-

- "Your memorialists believe that there is no difficulty in practice, in the generality of cases, to ascertain the letting value of any house property. They submit that such letting value is the fair and proper basis of assessment, and it is unaccountable to them why, in the case of a residential house, the cost price of the building, together with the value of the land on which it stands, should be taken as the basis of assessment; while in the case of tenented on which it stands, should be taken as the basis of assessment; while, in the case of tenanted houses, rent should be considered as a fair criterion for assessment."
- 5. The English law on the subject of rating is that the net annual value of hereditaments shall be the rent at which they may reasonably be expected to let, after deducting the probable average cost of repairs, insurance, &c. The memorialists desire to see the English law applied in Calcutta. They ignore, however, the radical difference between England and India in sentiments, manners, and custom. In England there is no prejudice against living in a hired house, the houses let on hire in a street are generally more numerous

than those in the occupation of their owners, and there is no difficulty whatever in assessing the reasonable rent of a residential bouse with reference to the rent actually paid by similar houses, with similar advantages, in the immediate locality. But in India, where there is the strongest possible prejudice against living in a hired house, and all the houses over large areas, with very few exceptions, are occupied by their owners, it is impossible to institute any fair standard of comparison with the rent of houses let on hire. If such a standard were adopted, if, that is to say, residential houses were compared with houses built for letting on the basis of their cost, accommodation or cubic feet of material, respectively, it would have led to an enhancement of assessment of residential houses much greater than it is now under the present Act. It became necessary therefore to adopt some other standard of value for residential houses in Calcutta, and after full consideration it was decided that a fair valuation of this class of houses would be attained by the assumption of an annual payment of 5 per cent. on the true value of the house and land as the hypothetical rent, with a lower percentage to meet exceptional cases.

hypothetical rent, with a lower percentage to meet exceptional cases.

6. According to the argument of the memorialists, residential houses should be compared, not with houses built for the purpose of letting, but with the few residential houses which the owners have for some reason or other been compelled to leave, and for which they have been compelled to eleave.

been compelled to leave, and for which they have been compelled to obtain such tenants as they can get with no market and all the prejudices against this form of living. It is assumed in the memorial that the person occupying his own house is not a tenant, and that some other tenant must be found, and that the rent this other tenant would pay should be ascertained and fixed as the basis of valuation. Although there is in the parts of Calcutta to which reference is made no efficacious demand for hiring family houses; although it is admitted that the prejudice against maintaining one's family in a hired house is so strong that "a person would rather have two or three cottahs of his own with tiled huts to live in than live in a hired pucca house;" although the feeling on this subject is so marked that even buying a house ready built by some one else is regarded as less desirable than building one for one's self, and in consequence a house built as a family residence is at so marked a disadvantage in finding any tenant, other than the owner, compared with all other classes of houses, as to depreciate its value by about one-half when tried by this test alone, it is nevertheless urged that for purposes of municipal assessment such a house should be valued at the amount of rent which it would obtain if let to another person. This argument, as Sir Henry Harrison points out, is as fallacious from the standpoint of English law on the subject of rating as it is contrary to fairness and justice. The authorities cited conclusively show that, according to English procedure, when a property is not usually let, a hypothetical tenant is assumed; and the owner of the house, if he actually does occupy it, is regarded as among the possible hypothetical tenants, and the annual value of the tenancy to him is then calculated in exactly the same way as the new section of the Act calculates it. This is the only manner in which the real value of houses which are never let on hire can be ascertained in comparison with houses built for le

7. It is an incontrovertible principle that the taxation of property for the purposes of municipal administration should be proportioned to its value. But residential houses in Calcutta have hitherto not been taxed on this principle, and it is precisely because these houses were not being rated at a reasonable value, having regard to the purposes for which they were built—occupation by their owners—but at a letting value, having regard to a totally different purpose, i.e. hiring by a person not the owner, to whom they were never let, that the new section of the law was deemed necessary. Sir Henry Harrison demonstrates with much force in his special note on the subject that it is the owners and occupiers of their own houses who paid least and for whom most was done under the old law. The statistics he furnishes show that, as a whole, they derive far more by way of municipal benefits than they pay; while they have been assessed at very much less than the fair amount due from them. They show that the mercantile wards of the town pay a large portion

of the rates and taxes for which the residential wards receive benefits, and that for all other sources of municipal income outside rates the incidence of taxation is as much against the trading and mercantile community as it is in the matter of rates. In other words, the interests of the trading and commercial community have in practice (though not of course deliberately) been rendered subservient to those of the ground landlords. It is well known that during the past ten or fifteen years the value of land has doubled or quadrupled in value, while the assessment value, even under the operation of the new Act, affords an increase during six and a quarter years of only 22.8 per cent. It was to remedy what Sir Henry Harrison justly calls "the scandal of the under-valuation of houses occupied by their owners" that the new section of the law was passed. The Lieutenant-Governor recognises that those persons who have not hitherto realised how much they have previously been under assessed in comparison with less favoured classes may not unnaturally protest against a law which, in providing for a more equal system of assessment, imposes increased burthens on themselves; but the Lieutenant-Governor is thoroughly satisfied that the new system is more equitable than the old one, and that it would be improper for the Government, notwithstanding the high position of the signatories and the importance which he attaches to their protest, to hesitate in upholding the efforts of the Legislature to equalise the incidence of taxation.

8. Under the old law no deduction was allowed for repairs. It is estimated therefore that under the old law the so-called owners, who are also the occupiers of huts in bustees, were over-assessed by about 25 per cent.; that the occupiers and owners of houses, offices, shops and places of business, built for letting purposes, were over-assessed by about 15 per cent.; that owners of bustee lands and the owners and occupiers of large public buildings were on the whole correctly assessed, though there is reason to believe that in some cases such buildings were too highly valued; while owners living in their own houses, built for such occupation and not for letting purposes, were under-assessed by 30 to 50 per cent. if tested by the rule for valuing Government buildings, and by even more than this if the Bombay rule were followed, and their value were tested by comparison with the accommodation, cost or cubical space of houses built for letting purposes. These inequalities are rectified by the new Act, which allows a deduction for repairs in the case of letting houses, and in the case of residential houses imposes a reasonable valuation. In regard to this valuation, Sir Henry Harrison writes:—"The advantage of the proposal adopted by the Act is that it carries on the face of it its own justification. In all ordinary cases the cost of building, plus the value of the land occupied by the tenement, obviously determines the reasonable rent, and even the most superficial acquaintance with Calcutta enables any one to know that a net return of 5 per cent. is an extremely moderate return for money invested in house property. If, therefore, this standard, when applied to houses occupied by their owners, greatly enhances the valuation, the result carries with it its own evidence of previous under-valuation." Even under the provisions of the new Act, residential houses will, if anything, remain somewhat under-assessed, while letting houses, valued according to their actual gross rental, with an allowance of only 10 per cent. for repairs, will still be somewhat overassessed. The result of recent legislation is nevertheless a decisive approach to fairness and equal taxation. It is proposed by Sir Henry Harrison, in the 40th paragraph of his note, that when the whole town has been re-valued under the new law, the equity of the valuations should be tested by a Committee of Engineers and Surveyors. "If," he writes, "they find that residential houses, occupied by their owners, are proportionately more highly valued than other classes of buildings, let redress be promptly given; but if, as I am confident will be the case, the verdict is the other way, then further steps should perhaps be taken to redress the balance; for it is surely intolerable that the group of rate-payers, which, under circumstances of strictly equal rating, must inevitably enjoy far more advantages than they pay for, should not even pay equal rates." In the Lieutenant-Governor's opinion this suggestion is one which may very properly be attended to if the owners of houses built for their own occupation should, when the present revaluation of the town is finished, still be found to maintain that they have been unfairly treated.

- 9. It is observed in the memorial that the hearing and determining an objection preferred against an assessment made by a subordinate by his executive superior is subversive of the principle of Local Self-Government and can never be satisfactory. Sir Henry Harrison has devoted the last of the appendices attached to his note to a consideration of this question. His weighty remarks deserve the careful attention of all interested in the welfare of Local Self-Government in this country. His conclusion, that if Local Self-Government is to be a success, it is necessary for the Municipal Commissioners to leave all judicial functions to others, and to content themselves with financial and administrative control, meets with the Lieutenant Governor's complete concurrence.
- 10. The second feature in the new Act to which the memorialists have taken exception is the provision in sections 117, 118 and 119, by which the ground landlord in bustees is required to pay all the rates (one-half of which on account of the land on which the hut stands and the entire consolidated rate on account of the hut he is entitled to subsequently recover from the hut-owner by the same process as the recovery of rent), being allowed a deduction of 2 annas in the rupee for risk and costs of collection. The principal object of this provision is to protect the bustee tenants from the collecting establishments of the Municipality. Sir Henry Harrison's remarks on this aspect of the question deserve careful consideration. "If needed in England, it is needed ten times more in Calcutta, where this is the class habitually most oppressed and most silent under oppression. Under the old law the number of warrants issued in Calcutta annually was between 30,000 and 40,000, the great bulk of course in connection with these poorer rate-payers—100 warrants a day; yet who heard anything of them? Under the new system a single warrant has been issued against a wealthy ground landlord who, with ample means, was openly defying the law, and the whole of Calcutta rings with the event, and a suit in the High Court is the result. Is any comment necessary on such a contrast?" And again—"The ground landlord invests no capital in the bustee (except perhaps for drainage), he risks nothing, he ventures nothing, and he appropriates all the profits of the municipal improvements. The value of bustee land-since the bustees have been improved by the Corporation, have had roads made through them, bathing platforms erected in them, and their conservancy attended to-has gone up from 50 to 300 per cent. At a most moderate computation, the ground rents of bustees in Calcutta have increased by five lakhs annually during the last six or seven years. The landlords have literally grown rich in their sleep, and can they, forsooth, complain of injustice because, for the well-being of the community, they are required, as in England, to advance the rates for the poor tenants?" No additional remarks from Government are required to justify these sections of the law.

11. For the rest the Lieutenant-Governor has only to express his general agreement with the remarks recorded by Sir Henry Harrison in the memoranda submitted by him to Government. The whole of the papers will now be published in the Calcutta Gasette.

ORDER —Ordered that a copy of this Resolution, and of the papers recited in the preamble, be published in the Calcutta Gasette.

Ordered also that a copy be forwarded to Maharajah Sir Narendra Krishna Deb, R.C.I.E., on behalf of the memorialists, for information.

Ordered also that a copy be forwarded to the Chairman of the Calcutta Corporation for information and for communication to the Commissioners.

By order of the Lieutenant-Governor of Bengal,

H. J. S. COTTON,

Secretary to the Government of Bengal.

Datos Calcutta, the 9th May 1890.

From-Maharaja Sir Kabendba Krishna Des, R.C.LE., President, Rate-payers Committee,

To-The Secretary to the Government of Bengal, Municipal Department.

I have the honour to forward, for the consideration of His Honour the Lieutenant-Governor, the accompanying memorial of the rate-payers of Calcutta, praying for the amendment of the Calcutta Municipal Consolidation Act of 1888.

To-THE HON'BLE SIR STEUART BAYLEY, K.C.S.I.,

Lieutenant Governor of Bengal. The humble memorial of the undermentioned rate-payers of Calcutta.

SHEWETH,

That your memorialists, who are rate-payers of Calcutta, venture to approach your Honour with their representation in regard to some of the provisions of the Calcutta Municipal Consolidation Act of 1888.

Your memorialists at the time of the passing of this Act apprehended serious difficulties in the working of it. Their apprehensions they are sorry to

find were not unfounded.

That by the latter part of section 122 of the present Municipal Act, an entirely new principle of assessment of house properties was introduced, cannot be denied. The prior Act directed the Commissioners to proceed upon the equitable and uniform basis of annual letting value, whether the house was built for letting or residential purposes. By the present Act this principle of assessment is, in the case of houses not built for letting purposes, and not ordinarily let, abandoned, and a new principle of assessment introduced, based on the estimated present cost of building a house less a reasonable amount for depreciation, if any, added to the estimated value of the land. So far as your memorialists have been able to ascertain, this innovation was attempted to be justified by the statement that houses built for the residence of the owners were not sufficiently taxed, whilst houses built for letting purposes occupied by tenants were overassessed; your memorialists are unable to subscribe to the statement. The joint family system is an essential characteristic of the Hindu social order, and is largely adopted by the Mahomedan residents in this country. It is not, as is observed by John Stuart Mill of large families in England, the result of a person's own choice, and is not, so far as public interest is concerned, a thing to be discouraged, but rather promoted. The system of family life obviates by its existence almost entirely the necessity of any l'oor Law. The amount spent in the building or enlargement of a family dwelling-house affords, therefore, in the vast majority of cases, no criterion as to the owner's means or position in life, and should not, it is submitted, be adopted as the basis of taxation. Such houses should be rated at the annual letting value to be determined with regard to the purposes for which they were built, and for which they are capable of being used.

Your memorialists anticipated, though not to the fullest extent, the mischievous effect of this innovation in the law, as is apparent from the memorial of the rate-payers of Culcutta to His Excellency the Earl of Dufferin, then Viceroy and Governor-General of India, submitted on the 6th day of June

1888, in which it was stated as follows:-

"Your Excellency's memorialists would respectfully call Your Excellency's attention to the provisions of section 122 of the Bill, which have created little less than a punic among the bulk of Hindoo rate-payers who for the most part live in their own ancestral bouses. A provise has been added in the course of the discussion in Council that 'under such exceptional circumstances as renders a valuation of five per cent. excessive, a lower percentage may be taken.' But Your Excellency's memorialists crave leave to point out that the proviso, because it will deal with exceptional cases, will not afford the relief that is sought for. The principle of assessment which is here enforced is an innovation in the law of the land, and is apparently opposed to the principles of English law as interpreted by the High Court in the case of Nando Lal Bose versus the Corporation of Calcutta. Sir Richard Gaith in that case said:

'The principle of rating on which the Commissioners are directed to proceed is the same which is adopted in England; and similar difficulties arise there in the case of gentlemen's parks and mansions which are laid out for residential purposes and not for sale or letting. But such properties are nevertheless constantly rated upon the basis of their annual letting value. And Mr. Justice Wilson in the same case said- But the whole system of taxation and assessment under the Act in question is obviously borrowed in its general outlines from English Rating Acts.' But be that as it may, this new provision in the Bill will prevent

people from building large houses which are as much a sour e of comfort as they are a means for the preservation of health. The change in the law is sought to be justified on grounds of Political Economy, and the high authority of John Stuart Mill is quoted in support of it. The following passage is confidently cited as one that thoroughly bears out and justifies the

changes in this section:

"'The public were justly scandalised on learning that residences like Chatsworth or Belvoir were only rated at the imaginary rate of purhaps £200 a year, under the pretext that, owing to the great expense of ke-ping them up, they could not be let for that, and if the argument were a fair one they ought not to have been they do not be let for that, and if the argument were a fair one they ought not to have been at all. But a house tax is not interpted as a toy or income desired form house. taxed at all. But a house tax is not intended as a tax on incomer derived from houses, but on expenditure incurred for them. The thing which it is wished to ascertain is what a house costs expenditure incurred for them. The thing which it is wished to ascertain is what a house costs to the person who lives in it, not what it would bring in if let to some one else. When the cocupier is not the owner, and does not hold on a repairing lease, the rent he pays is the measure of what the house costs him; but when he is the owner, some other measure must be sought. A valuation should be made of the house, not what it would sell for, but what it would cost for rebuilding it, and the valuation might be corrected by an allowance for what it had lost in value by time, or gained by repairs and improvements.'

"But Your Excellency's memorialists beg leave to point out that there has been in this instance only a partial application of the principles of Political Economy. The Hon'blu Member in charge of the Bill, who quotes the above passages from Mill's Political Economy in support of his view, omits to quote the passages which immediately follow, and which bear distinctly in favour of the rate-payers' point of view, but which Your Excellency's memorialists regret to find have not been embodied into law. John Stuart Mill goes on to remark:—

"The amount of the amended valuation would form a principal sum, the interest of which at the current price of the public funds would form the annual value at which the

which at the current price of the public funds would form the annual value at which the building should be assessed to the tax. As incomes below a certain amount ought to be exempt from income-tax, so ought houses below a certain value from house-tax on the universal principle of sparing from all taxation the absolute necessaries of healthful existence (Mill's Political Economy, Book V, Chapter III, page 504, People's Edition).

"If these principles are to be applied, it is obvious that the valuation should be fixed at 4 (which represents the current rate of interest on Government Securities) and not at 5 per cent., as has been fixed under the Bill; and further, houses below a certain value should have been exempted from the house-tax althoughter, which has not been done. Vonshould have been exempted from the house-tax altogether, which has not been done. Your memorialists venture respectfully to urge that it is an unfair application of economic principles to enforce them only when they operate to the prejudice of the rate-payers, and impose upon them a heavier burden of taxation; but to omit them when they tend to afford to the poorer section of the community the relief to which they are fairly entitled. If it is thought necessary in equity to make the richer section of the community pay, what it is alleged they had not hitherto done, their fair share of contribution to the Municipal taxes, is it not demanded, Your Excellency's Memorialists venture to enquire, by the highest justice, that the poorer classes should obtain that relief which the principles upon which this section of the law is estensibly based have provided for them? Your Excellency's Memorialists will not hesitate to affirm that it is a singularly uniform the poorer of principles seeks to law a heavy "unfair piece of legislation which in the name of economic principles seeks to lay a heavy "burden upon the well-to-do classes, but will not provide for that relief to the poorer classes "which these principles distinctly contemplate."

The mischievous tendency of this provision of the Law foreshadowed in the aforesaid Memorial has been realised in fact, and it most fully appears from the recent assessment of House property in Calcutta. The annexed table marked A shows the extent of increase made in ward No. 6, the total amount of increase in 1,177 cases only being from Re. 5,54,866 to Rs. 6,81,319; and Your Memorialists submit that an examination of assessment books will show that the balk of the increase has been in cases of small house property. A few cases set forth in the table marked B will show to what extent the assessment of small houses in ward No. I is proposed to be increased. Can it be for a moment supposed that these small houses had been underassessed under the old Law? Your Memorialists are confident that it is impossible to come to any such conclusion, and if that be conceded, it seems to Your Memorialists that the assessment of such houses on the basis laid down in the Act is indefensible. In this connection, Your Memorialists solicit Your Honour's attention to the two cases in the annexed table marked C, which show how the application of the principle of valuation for residential houses has resulted in the imposition of greater burdens on owners as contrasted with the amount of tax their co-sharers have to pay monthly for similar property let out to tenants but not occupied by them. Numerous examples of a similar nature can be added. Instances of houses purchased for residential purposes, but which for some accident have not been so used, but have been let out, will lead, from the rate of rent realised, to the same conclusion. Your Memorialists regret that the provisions in section 122 us to residential houses were laid down without any enquiry as to the real

state of things, but were based upon a supposed principle (not applicable to the people of this country) that no one spends more for a house than what would

yield at least five per cent. if the house were let out.

Your Memorialists beg further to submit that the procedure laid down by the section now under consideration, for the valuation of residential houses, is so complex in its character as to render it impossible to ensure an equitable and satisfactory working of it. With reference to the estimated present cost of the building, it is to be observed that the cost of building varies according to the quality of materials used, and that, at the time of the assessment, it is in most cases quite impossible to find out the quality, and, therefore, the present value of such materials. One house, seemingly as good as another, may be worth much less, though both built at the same time; and when a house built many years ago has to be valued with reference to the price of the materials ruling at the present time, the chances of mistake to the prejudice of the owner must be great; whilst, the deduction for depreciation being made subject to no settled rule, the liability to mistakes on the part of the Executive Officers of the Corporation to the prejudice of the owners is greater. The provision in the present law was said to have been necessary on account of the difficulty in ascertaining the annual letting value of houses occupied by the owners, but it is apparent the difficulty has now been considerably enhanced on account of a large number of unknown factors to ascertain each of which elaborate and detailed enquiry is needed.

That under these circumstances the assessment of House property in

That under these circumstances the assessment of House property in Calcutta has caused widespread discontent amongst the house-owners of Calcutta, which Your Memorialists deem it necessary to point out to Your Honour. They respectfully submit that, while in the course of 9 years, i.e., from 1874 to 1884-85, only 1,805 appeals were preferred from all Calcutta against the assessments made by the assessor (as will appear on reference to the table marked D), yet in the short space of one year in respect of assessment of only two of the wards of Calcutta more than 1,000 petitions of objections have been filed by owners of residential houses; and if Your Honour be pleased to direct an enquiry as to how such objections are being disposed of, it will be seen that the modification of the previous Law by section 136 of the present Act as to the hearing and disposal of objections has, in a large number of cases, resulted practically

in a denial of justice.

The hearing and determining of an objection, preferred against an assessment made by a subordinate, by his executive superior, is, Your Memorialists would venture to say, subversive of the principle of local self-government and can never be satisfactory. Even the provision, as in the original Bill, of a Bench of not less than three Commissioners presided over by the Chairman or Vice-Chairman to hear appeals would have minimised the evil now complained

Your Memorialists believe that there is no difficulty in practice in the generality of cases to ascertain the letting value of any house property; they submit that such letting value is the fair and proper basis of assessment, and it is unaccountable to them why in the case of a residential house the cost price of the building, together with the value of the land on which it stands, should be taken as the basis of assessment; while in the case of tenanted houses rent should be considered as a fair criterion for assessment.

Your Memorialists now crave leave to refer to another provision of the Law, which is unduly pressing upon the bustee owners of Calcutta. They refer to section 117 of the said Act. When there was a discussion in Your Honour's Council on the subject, the Hon'ble Sir Charles Paul, Advocate-General of

Bengal, was pleased to say as follows :-

"I wish to explain that the precedent which the Hon'ble Member in charge of "the Bill relies upon does not apply in this case. In England, all house property belongs to the landlord: in this country, huts belong to the tenants. Everything put upon "land in England belongs to the landlord: here huts belong to the tenant, and, therefore, "I subm t, it is unfair to make the landholder pay for property of which he is not the 'owner."

Your Memorialists deeply regret that notwithstanding this opposition by the highest Law officer of the Crown, the section was passed into Law by your

Honour's Council.

Your Memorialists submit that the means possessed by the Municipality to enforce payment of the bustee bills from the occupiers of the bustee land are ample compared with the limited powers which land-owners have. The former

have at its discretion the power of distress warrant and summary sale after a short notice which involve charges payable by the debtor, whereas the latter is referred to the ordinary law of debtor and creditor in reference to which a former Chief Justice of the High Court is reported to have said that "the trouble of the creditor begins with the decree" which at an average seldom realises more than half of the claim. It is undeniable that the Corporation with such large powers has not always been successful in collecting the rates, without having recourse to the extraordinary powers which the law has conferred on it; and if so, how still more difficult must it be for private individuals to undertake these collections? Your Memorialists venture to submit that the modification of the Law exempting those whose duty it is to collect the taxes directly from the parties liable to pay the same is a positive injustice. Even the Government in the collection of land revenue with the sunset and the certificate laws to back it has never on an average collected more than 92 to 95 per cent. of its dues. Your Memorialists submit that the remedy does not lie in transferring responsibility on those who are not reasonably liable to it. Under the law the occupier or tenant is to pay the taxes due on his holding, but this transference of the responsibility to the owner is a positive injustice, particularly adding the losses incident to civil suits on persons who are not the rightful debtors and have no concern with the same and who have not the means of recouping their loss.

Your Memorialists fail to see what principle of fairness has guided the Legislature in framing this section, the object of which evidently is to relieve the Municipality, at the expense and annoyance of the land-owners, who, as a rule, experience great difficulty in recovering their dues from their tenants; and Your Memorialists feel that this section of the Law has entailed serious hardship upon bustee-owners generally, and particularly upon owners of small bustees of limited means, for under the law any plot of bustee land measuring 10 cottas and

upwards is a bustee.

There are other sectious also objectionable, but Your Memorialists do not

desire to comment on them on the present occasion.

Your Memorialists therefore humbly pray Your Honour to take their Memorial into your favourable consideration and to move Your Honour's Council for the modification of the Municipal Law in the respects herein mentioned.

And your Memorialists will ever pray.

Joteendro Mohun Tagore.
Narendra Krishna.
Doorgachuen Law.
Sourindro Mohun Tagore.
Sham Churn Law.
Rajendralala Mitra.
Rajendra Narayan Deb.
Jadoolaul Mullick.
Binoya Krishna.
Mahomed Furrokh Shah.
Debendra Mullick.
(And many others.)

# A. WARD G.

Statement shound	ay the tho	sense d	1 CE 9 RE 8 (	ment of bremises in bereeits	eite.	
	No.	of premium	6.		No. of	premises.
1 to 10 per cent.		139		141 to 150 per cent.		5
11 to 20 per cent	. 0	264		151 to 160 per cent.	000	4
21 to 30 per cent		175	201	161 to 170 per cent.	+ 5.6	4
31 to 40 per cent.		162		171 to 180 per cent.		6
41 to 50 per cent.	4.0	108		181 to 190 per cent.		3
51 to 60 per cent.	6 6 4	80		191 to 200 per cent.	4.6	3
61 to 70 per cent.		71		201 to 210 per cent.		0
71 to 80 per cent.		35		2:1 to 220 per cent.		9
81 to 90 per cent.	1 - 4	37		221 to 230 per cent.	4.9	1
91 to 100 per cent.	9 * *	26		231 to 240 per cent.	9.4 *	2
101 to 110 per cent.	1 * *	()		241 to 250 per cent.		
111 to 120 per cent.		13		zol to upwards	4 + =	12
121 to 130 per cent.	F 1 2	9		History of managines	1	12"
131 to 140 per cent.	113	4		Total No. of premises	1,	111

		B.			,	
No. of premis	Name of street!		Former	- and cimeno	ns. Propo	. Limmeson bee
20 4	Duranes Tame	0.00	***	3	0.00	15
3/1	Choudhury's Lane			10	481	24
3	*		8 * 8	24	900	90
7	Mohendra Bose's Lane			30	***	95
8/1	Ram Kanta Bose's 2nd I	ane		33	***	86
6.2	Beerdland Gossain's Lan	e	0.9.5	86	***	84
69.4	Bagbazar Street		464	86	•	102
69.3			***	42	0.0 +	118
511	Ram Kant Bose's Street	4 0 B	4 * *	48		200
3	Pal's Lane		* * *	48	0 0 0	127
25/2	Bosepara Lane			60	• • 4	152
33 1	99	* 1 7	9 = 4	(31)		125
61	Shyambasar Street	* = +	0 9 0	60	0 u 0	180
191	Upper Chitpur Road	h = 4	***	60		232
19	Telipara	4.0	* * *	60	400	230
6	Rajah Kali Krishna's Str	eet		60	***	220
6	Gooul Mitter's Lane		9.9.0	72		190
5	Raja Kali Krishna's Lan	b	4.9.0	72	* = *	227
25 3	Bosepara Lane		44.1	72	* * *	212
53	Ram Kanta Bose's Street	FA = =	•••	84	4 + 4	219
41 1	Bagbazar Street		4 4 4	96		231
52	99		0.4.0	96	9.69	198
66	99			96		215
48.1	Ram Kanto Bose's Street		4 + 4	96	0 4 0	208
_6	Telipara Lane	0.014	5.4 9	96	0 = 4	198
34	Nava Krissen's Street	* * 1,	100	96	***	836
25	Santiram Ghose's Street		0 + 0	108	* 0 *	306
103	Cornwallis Street	* D *	0 0 0	108	0.0.0	307
64/I	Bugbazar Street			120	n. q. n	570
55	Bosepara Lane	* * *		120	0.00	353
1 2	Hem Chandra Kar's Lan	θ,	4.9.4	120	0 = 4	265
6	Bulloram Ghosh's Street	+ 4	**	120	***	385
4.5	Bosepara Lane	9.0.0	6 P P	135		300
225	Upper Circular Road	1919 8		144	0 0 4	420
19	Hurrolal Mitter's Street	1011	* **	144	005	360
8	Chowdhry's Lane	***	0 0 0	144	4 0 0	380
13	Bigbazar Street		* * *	156	* * *	316 460
7	Bulleram Ghose's Street		0.44	156	+ + 9	
66	Rajah Rajbulluv's Street		000	180		327 438
16	Santiram Ghose's Street		* * *	180	0.00	
19	Brindaban Pal's Lane		4 0 m	180	440	432 360
5	Puddo Nath's Lane		* * *	180		
61	Bagbazar Street	* * *	* * *	180	***	402
3	Hem Chander Kar's Lan	0	0.0	192		333
33	Shyambazar Street		• • •	192	* * *	588
106	(1 1 T): 1 T			192	* # *	495
11	Gopal Biswas' Lane	* * *		204	***	663
108	Cornwallis Street	9.4.9	4 + +	208	0 4 3	543
34	Bosepara Lane	à m g	8 0 0	216	4 / 4	430
17	Santiram Ghosh's Street		0 0 0	216		5(iñ
19	Mohendra Bose's Lane	* * *	***	216		410
49	Bosepara Lane		0.00	240	0.0.4	480
32	Santiram Ghosh's Street		* * 1	240		915
15	Ram Kanta Bose's Stree		* * *	300	0.00	700
12	Ramdhone Mitter's Lan	(0		300	0 + 0	660
46	Bosepara Lane	***		312	0 0 0	832
2	Kristoram Bose's Lane		* * *	336		612
52	Raja Nava Kissen's Str	teet	• •	360		750
48	Bosepara Lane	0.0	0 0 0	360		725
5	Ramdhone Mitter's Lan	0	***	450		972
182	Upper Chitpur Road		***	800		1074
18	Rajah Rajbulluv's Stree		* * #	720	0 + 6	1390
2/6	Rajah Nava Kissen's St	rect		800	0 + 0	1620
21	99		• • •	800		2110

		€. ↓		
No. of premises.	Co-charers in original property.	Purpose used.	Addition.	Accommont.
55, Bosepara Lane. 54, Bosepara Lane.	Tarraprosono Chatterjee. Female	Dwelling house	Nil Nil	Increased from 120 to 353. Increased from 120 to 144.
45, Ramkanto Bose's Street. 45/1, Ramkanto Bose's Street.	Prosono Coomar Banerjee. Kanti Chunder Banerjee.	Dwelling house Tenanted house	Nil Nil	Increased fram 96 to 108.  No increase Rs. 96.

D.

Statement showing areas assessed and appeals preferred and disposed of in cases of new assessment of houses and lands in the Town of Calcutta during the period of 9 years noted below.

# (Vide Annual Administration Reports of the Municipality for the several years respectively.)

Yours,		Areas assessed.	Number of objections or appeals preferred a g a line t now nanousments.	Number of objections or appeals disposed of in favour of applicants.	Number of new manufactured, i.e. of appeals rejected or struck off.	Number of a p p c als pend t n g doctation.	Date - man
1674		North Division, Blocks Nos. VII-XII- XIII and XIV,	100	56	44		1
1875	14	Rlocks Nos. I, II, III, IV, V. VI, VII, IX, XV and XVI.	1,187	กา	476		
1576	-9.1	Bounded on the north by Aumopurm's Chat, south by Shovabazar Street, east by Upper Chitpore Read, and west by the river Hughly.	21	17	- 4		
1877	001	Wards Nos. 6, 3, 4 and 1	138	97	41		
1.47/5	4-1	Wards Nos. 7, 8, 2, 10, 11, 12, 18, 16, 15, 10, 17 and 18.	97	28	43	28	
1870		Ward No. 5 and a portion of Ward No. 2.	4	4	2		
1882-88	400	Ward No. 2	24	20	4		
1488-84	200	Wards Nos. 1, 3, 4, 6, and 9.	267	180	77		Of the 257 appeals, 90 were against old assessments.
1884-85	***	Warda Nos. 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17, 18.	207	86	54	67	Of the 207 appeals, 142 were against old assessments.
		Total objections preferred during the above 9 years.	2,037	1,197	745	95	
		Deduct number of appeals against old assessment.	232				
1		Net total of objections against new assessment.	1,805°				

<sup>·</sup> This divided by 9 gives the average number of objections (about 200) per annum.

Note on the memorial addresse! to the Lieutenant-Governor against the Assessmen! Sections of the New Municipal Consolidation Act.

#### CONTENTS.

#### PARA.

Nothing to justify the re-opening of the question.

The enhancement that has taken place was foreseen.

The enhancement that has taken place was foreseen.
 The case for the memorialists stated; they ask for the English Law.
 Which in this instance is (1) inapplicable, (2) erroneously applied.
 By English Law the owner himself may be the hypothetical tenant, and what is a reasonable rent for him to pay should be computed.
 Case of mansion houses discussed in appendix A.
 Inequalities of rating under the old law in Calcutta.
 Whereby those who, if anything, should have paid most, paid least, and circusted.

serali.

The solution proposed in the Act under all the circumstances the best. Especially when read with the 'exception' clause.

Objection to market value considered.

- Five per cent. the lowest admissible percentage on land and buildings combined. Question of the total exemption of the houses of the very poor.
- 41.

Second objection; owners required to pay rates for bustee Justified on the grounds of public policy. 48.

But also perfectly equitable. 50.

51. Conclusion.

## APPENDIX A. ON THE RATING OF MANSIONS IN ENGLAND.

Till lately the rating of mansions was the one great blot in the English system.

No real parallel to the case of residential houses in Calcutta.

More recent history of the question.

7. Summary of Hedley's pamphlet in 1874.

APPENDIX B. ON THE EQUITABLE INCIDENCE OF MUNICIPAL TAXATION IN CALCUITA.

Ground landlords in a growing city the last class that ought to be exceptionally favoured.

While excess rates on Trade and Commerce are unfair and disastrous.

15. Yet in Calcutta the mercantile wards obviously support the residential by their rates and taxes.

17. As shown by statistics.40. The incidence of rating on each class of rate-payers considered.

APPENDIX C. EXTRACTS FROM EVIDENCE TAREN AT THE HEARING OF OBJECTIONS. APPENDIX D. ON THE PRINCIPLE OF LOCAL SELF-GOVERNMENT,

1. No Assessment Committee at Bombay.

Power in England much restricted, and made over to responsible officers. What is 'the principle' of Local Self-Government.

Popular bodies too fond of unlimited power.

11. And need checks.

## NOTE.

THE memorial presented to His Honour the Lieutenant-Governor protesting against certain provisions of the New Municipal Consolidation Act has been sent to me for comment, and in reply thereto I beg to submit the following note.

## SHOULD THE QUESTION BE RE-OPENED.

1. In the first place, I would point out that the memorial discloses no Nothing has occurred to justify the re-opening of the question after so short an interval.

That the standard of 5 per cent. on the present estimated cost of building, as an equivalent to the annual rent, would increase the valuation of most of the houses occupied by their owners in Calcutta, was not merely fully contempated when the Calcutta Municipal Consolidation Act was passed, but was even put prominently forward as the chief justification for the new section. The argument employed was substantially this. Looking to the ordinary return in Calcutta on capital invested in building houses, 5 per cent. is a very low estimate of the rent realised for such buildings: that is, of the net rent after all outgoings for repairs and other expenditure necessary to keep the premises up to their letting value. But houses built by persons for occupation by themselves have been for various causes valued much below this standard. This constitutes a grave injustice, as other rate-payers have to pay higher rates in consequence of this low valuation, and therefore the remedy proposed is to

take 5 per cent. as the net rent in ordinary cases, allowing a lower percentage to be taken whenever exceptional circumstances may reader the higher percentage excessive.

2. If any one ventured to deny the effect this would have on the valuation of such houses, it was those who opposed, not those who advocated the section. The Hon'ble Kalinath Mitter, in his speech opposing the section, said-"I think it is an error to suppose that as a general rule the owner of a residential house has hitherto been under-assessed. I admit that in certain exceptional cases it has been so, but barring those exceptions, I submit that the statement of the Hon'ble Member in charge of the Bill is wholly erroneous, and, if necessary, I think it would be well, before the Council finally decides this matter, to have a thorough enquiry on the point." As the statement made was that, if these houses were valued at less than 5 per cent. on the legitimate cost, they must necessarily in Calcutta be under-valued, the assertion to be relevant must have meant that they were not, save in the case of a few exceptions, valued at less than 5 per cens. Accordingly. I replied: "Can anyone doubt that in the part of the town where this Council is situated, or on the river bank, or in Chowringhi, houses are assessed at fully 5 per cent. on their cost. probably more—either 6 or 7 per cent? If there is any doubt that in the native part of the town residential houses are assessed less highly, then why this outcry against 5 per cent? So lar from there being an outery, we ought to be thanked for reducing the valuation to 5 per cent. Is anything more necessary to show that my fundamental contention is right?"

3. It is as clear as possible therefore that the section was introduced and passed with the fullest knowledge that it would add considerably to the valuation of houses

ously opposed in Council. As such it was vigorously opposed out of Council by a deputation to the Lieutenant-Governor. As such it was vigorously opposed in a memorial addressed to the Viceroy and Governor-General before he assented to the Bill, to which the present memorial refers. It was not till all these remonstrances had failed that the Bill became law. What has happened in the past year then to justify a reconsideration of it? Two wards have been completely re-valued: one, No. 25, a ward recently in the suburbs, has few residential houses in it, and its revaluation presents no results that specially bear on this question. The other ward, No. 6, is full of such houses. Six and a quarter years have elapsed since its last valuation, and the result is that the aggregate valuation has increased from Rs. 5,54,866 to Rs. 6,81,319—an increase of 22.8 per cent. Considering the great increase in the value of land during those six and a quarter years, and the number of new houses that have sprung up (all of course included in this increase), it is, I think, patent on the face of these statistics that the increase has been most moderate, so moderate as to furnish grounds for apprehension that the legal standard has been applied with mistaken lenioncy.

Besides the reassessment of Ward No. 6, Ward No. 1, a ward full of

Besides the reassessment of Ward No. 6, Ward No. 1, a ward full of houses occupied by their owners, has also come under re-valuation in the last quarter of the year, and the enhancements resulting therefrom have furnished much fuel to the agitation. The figures are not yet known, as the objections are under decision: but my impression is that the outcome will be as reasonable there as it has been in Ward No. 6. There is a further test which can be looked to, the cafeguard of appeal to the Small Cause Court. Very few appeals have been preferred during the year. In the principal one, the case of Baboo Nundo Lal Boso, the valuation was admitted to be fair, if a certain principle of valuation was upheld, which the Court did uphold. In not one single appeal up to date has the valuation made by the Chairman or Vice-Chairman on objection been

4. I maintain therefore that so far nothing whatsoever has occurred during the first year of the operation of the section to justify an appeal for its reconsideration; the working of it has been most carefully supervised, and the enhancement of valuations under it very moderate.

These agares are quoted 'rom the memorial; they are incomplete, as they not only leave out the pending objections, the deriver of which are ressed the figures to Rs. 5.74,064, and Rs. 7,05,512, but also all the bustess in the ward valued at above one-half takks, not much changed by its re-assessment.

THE CASE OF THE MEMORIALISTS AS REGARDS SECTION 122.

The case for the memorialists stated briefly. They sak for precessly the same law as in Enguand.

That, and a further memorial drawn up and submitted, it is desirable that the arguments put forward to Government should be further examined. I think that, so far as the memorial is directed against section 122, full justice is done to it by the following summary of its contentions:—

1) The English Law of valuing houses for rating purposes is very fair

and equitable.

(2) This law, which is still in force in Calcutta as regards houses built for letting purposes, operated very fairly and equitably in the case of houses occupied by their owners which, with perhaps certain inevitable exceptions, were rated quite as high as they should have been.

(3) Now, in order to prevent the English principle operating any longer, and to enhance the valuation of such houses, a new principle is introduced, which is most unfair and unjust in its operation, which considerably augments the valuation of houses occupied by their owners, and places them at a disadvantage compared with their fellow rate-payers in Calcutta.

(4) And it is asked that 'such houses may be rated at the annual letting value to be determined with regard to the purposes for which they were built, and for which they are capable of being

used.

The last request, taken verbatim from the memorial, is excellent as a proposition of law and equity, but is entirely misapplied to the real desire of the memorialists. It is precisely because these howes were not being rated at a reasonable letting value, having regard to the purposes for which they were built—occupation by their owners—but at a letting value, having regard to a totally different purpose, i.e. hiring by a person not the owner, that the section was deemed

necessary.

6. In commenting on this memorial, it must be understood at the outset that there is no possible room for doubt that if the quantity or quality of the accommodation enjoyed, or the money legitimitely sunk in building such houses, is looked to, residential houses, that is houses built for occupation by their owners, are conspicuously under-valued as compared with other classes of buildings in Calcutta. The most cursory examination will show this, and also that it is not due to what would, if correct, be a complete answer pro tanto, the greater cheapness of the site. The land on which these houses stand is, if anything, more valuable and costs more than the land on which the average of houses built for letting purposes stand. This marked difference in valuation between the two classes of houses is more rather than less than twofold. What then do the memorialists mean when they protest against unfair treatment? They mean this, that the English law has .as they would say! wisely and equitably decided that not the money sunk in constructing a building, nor its size, nor its accommodation, nor any other test, is to be the standard of valuation for rating purposes, but such standard should be the rent for which it would let from year to year, and that tried by this test residental houses have been fully as highly assessed as they should be in Calcutta. They urged that it is unfair to discard this, the English test, because its operation is favourable to this class of houses, and to substitute for it, to their disadvantage, other tests which have not been adopted in England.

7. I do not think the case of the memorialists can be more fairly or forcibly put than this, and it is for the Government to say whether the reply to it is decisive or not. Briefly stated, the substance of this reply is (1) that in this particular matter the English standard is, for a special reason, manifestly ill-adapted to Calcutta; (2) that the English standard has been very erroneously applied in the past in Calcutta, and its correct application would present totally

different results from those hitherto obtained.

(1) There is surely no reason in the world why a standard which, having reference to English manners and customs, may have been deemed the best in England, should necessarily be followed in Calcutta, where, having reference to

local manners and customs, it is obviously defective. Yet this is transparently the case. In England there is no marked distinction between houses built for occupation by families and houses built for occupation by single men whose families live in the country; also there is no strong prejudice against living with a family in a hired house; hence the rent which a tenant may be willing to pay is perhaps on the whole in most cases the best practical test of the quality of the house. In Calcutta there is a marked and radical difference in structure between houses built by persons as a residence for their own families and all other houses built with the object of letting them, residences for Europeans, residences for native gentlemen without families, public offices, places of business, shops, &c. There is an efficacious demand for hiring the latter, there is no such demand for hiring family houses, and in explanation of this absence of demand, it has been freely admitted in evidence before me that so strong is the prejudice against maintaining one's family in a hired house that "a person would rather have two or three cottabs of his own with tiled huts to live in, than live in a hired pucca house." Even buying a house ready built by some one else is regarded as less desirable than building for oneself (see Appendix C). Hence a house built as a family residence is at a marked disadvantage in finding any tenant other than the owner compared with a d other classes of houses, which depreciates its value very materially, probably 50 per cent. when tried by this test, alone. Surely no better reason could be adduced for urging that this test, however suitable elsewhere and for other classes of houses, is not suitable for this elass of houses in Calcutta.

8. (II) This consideration alone seems to me to furnish ample justification The English standard bushess missinder. for adopting some other standard of value in Stood in Colecuta and erroneously applied. Calcutta for this class of houses, but, as a fact, the case is much stronger. The interpretation put by the memorialists upon the English law is one which the law courts and the authorities on the subject have frequently repudiated; and it is only its improper, not its proper, application which helps the memorialists. It is assumed, altogether wrongly, that a person occupying his own house is not a tenant, and that some other tenant must be found, and the rent this other tenant would pay be ascertained; whereas according to the English rulings an owner may be his own tenant, and the reasonable value of the tenancy to him is to be computed. This at once revolutionizes the standard. Just as a house built for occupation by its owner in Calcutta would have to be valued very low if the owner must find a tenant other than himself, so it should be valued very high if the value of the tenancy to himself is looked to. It is notorious that the 15 per cent. over and above the market value which the Land Acquisition Act requires to be paid, does not nearly reconcile owners in Calcutta to the acquisition of their family houses.

9. The English law on the subject of rating (6 and 7 William IV, C. 96) is that the net annual value of hereditaments shall be "the rent at which the same might reasonably be expected to let from year to year free of all tenants' rates and taxes, and title commutation charge, if any, and deducting therefrom the probable average annual cost of the repairs, insurance and other expenses, if any, necessary to maintain them in a state to command such rent."

10. Obviously this standard is much more easily applied to buildings which

In English law in such cased a hypoordinarily are let, or at least are of the same class as
thetical tenant is to be assumed.

others that ordinarily are let, than to buildings not
intended to be let and ordinarily occupied by their owners. As regards the
latter class of buildings, the system adopted,—I think I may say invariably
adopted by English authorities,—is to assume a hypothetical tenant, and consider
what rent such hypothetical tenant might reasonably be expected to pay for a
year-to-year tenancy. So far all would be agreed, but the next questions are
(a) whether the present occupier, be he the owner or otherwise, is to be excluded from the number of possible hypothetical tenants or not? and (b) how
the value of the tenancy is to be computed? and we find that, when cases of
this kind have come before the superior courts in England, they have decided
that the owner of the building is to be regarded as a possible hypothetical
tenant of his own property, and that the value of the tenancy to him may be
calculated in precisely the same way as the Act calculates it.

11. (a) This was the very contention in the case of the Queen versus the School Board for London (55 L. J. Q. B. D. 53). Who may be the curer bimself.

The School Board in appeal contended, first, that the

School Board owning the premises should not be supposed to be in the market anxious to rent premises, but should be excluded from the number of hypothetical tenants who might be supposed to be willing to rent the school premises; second, that the only true indication of rateable value was the rent for which the premises could in their present condition be let to a hypothetical tenant from year to year, supposing they were not used for Board Schools, but were applied to any other use or purpose for which they could be made available

for a tenant

12. The School Board's contention was not allowed. Cave, J., said—"When you want to find what a hypothetical tenant will give, you must not take a man who does not want the premises for the purpose for which they were built, but wants to use them for some other purpose, unless you can first show that they cannot be let for the purpose for which they were built." The case was appealed, and the decision upheld in appeal, Lord Esher, M.R., remarking that "in estimating the rent no tenant was excluded, and the actual occupier might be included and the owner if he was the occupier; and Lord Justice Bowen—"the test of rateable value was the rent for which the premises might reasonably be expected to let to a tenant. In estimating that in the present case, the rent for which the premises may be reasonably expected to be let to the Board themselves may be considered, for how could the only body likely to require the premises be excluded from the estimate, that is, why should the only body likely to require

or use the premises be excluded from the estimate of rent payable."

13. A precisely similar case occurred at Madras, and was decided by the High Court there. The Madras Municipality rated the lying-in hospital at Rs. 1,000 a month, and in appeal the Magistrates reduced the assessment to Rs. 660; but at the request of the Municipality referred the matter to the High Court. The High Court decided in favour of the Municipality. The judgment expressly states that in rating property it must generally be assumed that the hypothetical tenant must be in the same position, and use the building in the same way as the party rated, for the object is to ascertain its intrinsic value to the owner in its present condition. The Madras High Court then refers at length to the School Board case above quoted, and concludes: "Having these principles in view, we are of opinion that the lying-in hospital should not be valued at the rent which it would fetch if it were offered in the open market without reserve: admittedly there is but one building in Madras specially eligible for use as a lying-in hospital, and it is occupied by the owner. If the owner, the only person likely to require the premises, were excluded from the market, then the hypothetical tenant would take advantage of the absence of demand for it, and pay no more than those who require it for use other than as a hospital would choose to pay."

14. Do not these decisions in principle apply exactly to the case of houses built for occupation by their owners? The owners are the only persons in Calcutta, looking to the known prejudice against living with a family in a hired house, who can possibly "use the building in the same way as the party rated," while the object of the memorialists is to get "the intrinsic value to the owner in its present condition" indefinitely depreciated by only considering as the hypothetical tenant one who, by the very fact of his not being the owner, cannot use the building in the same way as the party rated, and therefore cannot

be expected to pay full value for the occupation.

15. (b) The owner, then, if he built the house for his own occupation, and actually does occupy it, must undoubtedly be regarded as among the possible hypothetical tenants; and the question then arises, how is the rent which

he may reasonably be expected to pay to be estimated?

16. No doubt a comparison with other houses that are built for letting purposes in Calcutta is a perfectly fair method of valuation, but this would raise the assessment of these houses far more than the system in the new Act. If residential houses are compared with houses built for the purpose of letting, whether as regards the number of their rooms, their superficial area, their cubical contents, the amount of brickwork, the conveniences they offer, or any similar standard of comparison, the valuation thus ascertained would be decidedly in excess of what they are now being valued at. What the owners want is that they should be compared, not with this class of houses, but with the few residential houses which the owners have for some reason or other been

compelled to leave, and for which they have been compelled to obtain such tenants as they can get, with no market, and all the well-known prejudices against this form of living! Is it not enough to state this claim to secure its

rejection by any right-minded disinterested person?

dwelling-houses built for the residence of the owner is not prevalent in England, there are plenty of buildings which furnish us with an indication of how the law would be applied under similar circumstances. Large manufactories cannot easily be let, and in the case of R. versus Hampton (28 L. J. M. C., 135) Mr. Justice Wightman said: "When in practice a tenant for property not usually let has rarely, if ever, been known, a hypothetical tenant must be assumed, and the terms of such tenancy are not difficult to be conceived. The hopothetical tenant must be assumed to pay the rent of the land and adequate remuneration for fixed capital invested therein, and the local rateable value would be such a sum as would pay the rent of the land and profit on fixed capital therein." Similarly in the case of a light-house the decision was: "Where a building would not let, but is valuable to the owners, the annual value must be calculated on the rent of the land and fair interest on the expense of the building" (The Blyth Harbour and Dock Company versus Guardians of Tynemouth Union Glens Archbold, page 41).

18. There are many other similar decisions in the case of hospitals, railway stations, reservoirs, &c., which abundantly justify even from English precedents the principle of the Act, which may be thus stated, 'that when a hypothetical tenant has to be assumed (i.e. in the case of houses not built for letting purposes) he shall be presumed to pay 5 per cent. as annual rental on the value of the land, plus 5 per cent. on the estimated present cost of constructing the building, less depreciation, unless exceptional circumstances can be adduced which make 5

per cent. excessive, when any lower percentage can be taken.'

19. I do not think we are bound slavishly to follow English law in India when it can be shown that in regard to the question in point, sentiments, manners and customs are different; but even if English precedent is to be our guide, I think we have abundant grounds to infer that the principle adopted of rating a hypothetical tenancy has been over and over again affirmed by English decisions.

20. The memorialists, however, refer to the rating of "mansions" in England as helping their case; but the rating of English mansions furnishes no real parallel to that of residential houses in Calcutta. If there is any real parallel to the English mansion in Calcutta, it is to be found in Government House, the Museum, Writers' Buildings, the High Court and other large public buildings, which have been always fully valued in Calcutta, the cost price in the case of all recent buildings being the test usually taken to ascertain the rent which the hypothetical tenant should pay. As I do not wish to encumber this reply with a long digression on the subject of the rating of English mansion houses, I have appended a note which will, I think, satisfy any one who reads it that, abuse as it has been, this system affords no real support to the case of the memorialists: in fact that English surveyors are now dealing with it in a very similar way to that which Act II (B.C.) of 1888 adopts in dealing with the somewhat similar abuse in Calcutta.

INEQUALITIES OF RATING UNDER THE OLD ACT.

Why the change in the new Act was necessary.

Inequalities and iniquities of rating in Calcutta under the old Act explained.

I must first explain what is much by way of direct reply, I will now state why in my judgment it was desirable, when the Municipal Act was being recast, to modify the assessment chapter, and then to vindicate the precise character of the amendments introduced. For this purpose

22. The rate-paying community in Calcutta may, for practical purposes, be divided into the following groups:—

(1) Occupiers of offices, shops, places of business, &c., mainly built for letting purposes, though sometimes owned by their occupiers.

(2) Occupiers of residences built for letting purposes.

(3) Owners of the above offices or residences when not the occupiers.

(4) So called owners who are also the occupiers of tiled huts in bustees.

(5) Owners of bustee lands.

(6) Owners living in their own houses, built for such occupation and not for letting purposes.

(7) Owners who are also occupiers of public buildings, not built for letting purposes, mostly Government or the Port Commissioners.

23. In rating the premises occupied by all these persons, one and the same rule under the old Act applied; not

No deduction allowed for repairs. the English rule quoted above, for the English rule allows a deduction from the gross rent which a tenant may reasonably be expected to pay from year to year, sufficient to defray all rates and taxes and to keep the building in a state of repair such as to enable it to continue to command the rent, but (section 104) the rule that the annual assessment shall be the estimated gross annual rent at which the house or land might reasonably be expected to let from year to year. So far as I can ascertain, this exception in Calcutta to the ordinary rule was due to an entirely mistaken impression that, as the deductions would be approximately uniform, it would make no difference whether they were made or not made. If 20 per cent. were allowed of the gross rent to find the rateable value, 20 per cent. must be added, it was said, to the rate to balance this deduction, and the outcome would be the same. That this was fallacious, and therefore that the Calcutta rule was unfair, is easily shown. Tiled huts need a great deal more repairs than pucca buildings. A tiled hut owner has probably to spend at least 25 per cent. of the rental to keep it in repair; the owner of a pucca house not more than 10 to 15 per cent. Again, land needs no repairs at all; hence no deduction for repairs in this case should be allowed. Public offices were usually valued in accordance with the system of the new law, Government admitting the equity of the test. The capital spent upon them being known, from 5 to 6 per cent. on the outlay was taken as the rent which a hypothetical tenant would pay. Houses occupied by their owners were valued, as already explained, on the assumption that the hypothetical tenant must be some one other than the present occupant, and therefore some one not wanting the house, and with a strong sentiment against living with his family in a hired family house.

24. Hence on a fair probable estimate it may be said that group (4), tiled

hut owners, had their huts overvalued by about 25 per cent.

Groups (1), (2), and (3), occupiers and owners of houses and offices built for letting purposes, had their houses and offices overvalued by about 15 per cent.

Group (5), owners of bustee lands, were correctly valued, i.e. relatively but

not absolutely undervalued.

Group (7), owners and occupiers of large public buildings, were similarly correctly valued: 5 to 6 per cent. was taken as the net return and not the gross return on house property, and therefore the valuation was fair per se, but relatively to groups (1) to (4) they were also undervalued.

relatively to groups (1) to (4) they were also undervalued.

Group (6) was undervalued by 30 to 50 per cent. if tested by comparison with the rule for valuing Government buildings, or by still more if tested by comparison with the accommodation, cost or cubical space of houses built for

letting purposes.

25. The above is an approximate estimate of the inequalities of valuation in

It was the more necessary to redress
those inequalities because the class
benefiting by them was the very class
which, if any, ought to pay most.

Calcutta under the old Act, assuming that taxation
of property for the purposes of municipal administration should be proportioned to its value. On the
which, if any, ought to pay most.

whole, looking to the enormous difficulty of fixing differential rates for different classes and sizes of property, it is probably best to levy rates in proportion to value, taking care only to secure the best and most correct standard of value; it may be many years before even in England this system is departed from, and I therefore never suggested any departure from it in the new Act. The valuation of one class of houses at 5 per cent. was intended to be a fair equivalent to the net rental, i.e., gross rental less 10 per cent. payable by the other class; but in considering the urgency of redressing existing inequalities, it is obviously a matter of importance to see how the question of general equity stands. Economic science points out very clearly which are the classes that benefit most, and which those that suffer most from the equal rating system, and it is surely very significant of the equities of this question in

There is reason to fear, however, that in some cases the Commissioners' have fixed the hypothetical rent of such buildings much too high, such as the Port Commissioners' Office and the Bank of Bengal. The new section may in such cases prove as equitable in pruning down excessive valuations as in running up those which were too low.